

## Modbus, Profibus and Spa bus Events in VAMP devices

| Profibus,<br>Modbus<br>Code | SPA bus<br>Channel | SPA bus<br>Code | Event Name | Note |
|-----------------------------|--------------------|-----------------|------------|------|
| 0                           | 0                  | 0               | NONE       |      |
| 1                           | 0                  | 1               | DI1 on     |      |
| 2                           | 0                  | 2               | DI1 off    |      |
| 3                           | 0                  | 3               | DI2 on     |      |
| 4                           | 0                  | 4               | DI2 off    |      |
| 5                           | 0                  | 5               | DI3 on     |      |
| 6                           | 0                  | 6               | DI3 off    |      |
| 7                           | 0                  | 7               | DI4 on     |      |
| 8                           | 0                  | 8               | DI4 off    |      |
| 9                           | 0                  | 9               | DI5 on     |      |
| 10                          | 0                  | 1               | DI5 off    |      |
| 11                          | 0                  | 11              | DI6 on     |      |
| 12                          | 0                  | 12              | DI6 off    |      |
| 13                          | 0                  | 13              | DI7 on     |      |
| 14                          | 0                  | 14              | DI7 off    |      |
| 15                          | 0                  | 15              | DI8 on     |      |
| 16                          | 0                  | 16              | DI8 off    |      |
| 17                          | 0                  | 17              | DI9 on     |      |
| 18                          | 0                  | 18              | DI9 off    |      |
| 19                          | 0                  | 19              | DI10 on    |      |
| 20                          | 0                  | 2               | DI10 off   |      |
| 21                          | 0                  | 21              | DI11 on    |      |
| 22                          | 0                  | 22              | DI11 off   |      |
| 23                          | 0                  | 23              | DI12 on    |      |
| 24                          | 0                  | 24              | DI12 off   |      |
| 25                          | 0                  | 25              | DI13 on    |      |
| 26                          | 0                  | 26              | DI13 off   |      |
| 27                          | 0                  | 27              | DI14 on    |      |
| 28                          | 0                  | 28              | DI14 off   |      |
| 29                          | 0                  | 29              | DI15 on    |      |
| 30                          | 0                  | 3               | DI15 off   |      |
| 31                          | 0                  | 31              | DI16 on    |      |
| 32                          | 0                  | 32              | DI16 off   |      |
| 33                          | 0                  | 33              | DI17 on    |      |
| 34                          | 0                  | 34              | DI17 off   |      |
| 35                          | 0                  | 35              | DI18 on    |      |
| 36                          | 0                  | 36              | DI18 off   |      |

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|     |   |    |                               |                          |
|-----|---|----|-------------------------------|--------------------------|
| 37  | 0 | 37 | DI19 on                       | Option card: DI19 / DI20 |
| 38  | 0 | 38 | DI19 off                      |                          |
| 39  | 0 | 39 | DI20 on                       |                          |
| 40  | 0 | 4  | DI20 off                      |                          |
| 46  | 0 | 46 | Disturbance rec. memory freed |                          |
| 47  | 0 | 47 | Disturbance rec. memory FULL  |                          |
| 48  | 0 | 48 | Disturbance recording         |                          |
| 49  | 0 | 49 | Fault distance                |                          |
| 50  | 0 | 5  | Device restart                |                          |
| 56  | 0 | 56 | SelfDiag Alarm                |                          |
| 57  | 0 | 57 | SelfDiag Alarm Off            |                          |
| 58  | 0 | 58 | L1 Trip                       |                          |
| 59  | 0 | 59 | L1 Trip Off                   |                          |
| 60  | 0 | 6  | L2 Trip                       |                          |
| 61  | 0 | 61 | L2 Trip Off                   |                          |
| 62  | 0 | 62 | L3 Trip                       |                          |
| 63  | 0 | 63 | L3 Trip Off                   |                          |
| 65  | 1 | 1  | I> start on                   |                          |
| 66  | 1 | 2  | I> trip on                    |                          |
| 67  | 1 | 3  | I> start off                  |                          |
| 68  | 1 | 4  | I> trip off                   |                          |
| 129 | 2 | 1  | I>> start on                  |                          |
| 130 | 2 | 2  | I>> trip on                   |                          |
| 131 | 2 | 3  | I>> start off                 |                          |
| 132 | 2 | 4  | I>> trip off                  |                          |
| 193 | 3 | 1  | I>>> start on                 |                          |
| 194 | 3 | 2  | I>>> trip on                  |                          |
| 195 | 3 | 3  | I>>> start off                |                          |
| 196 | 3 | 4  | I>>> trip off                 |                          |
| 257 | 4 | 1  | Iv> start on                  |                          |
| 258 | 4 | 2  | Iv> trip on                   |                          |
| 259 | 4 | 3  | Iv> start off                 |                          |
| 260 | 4 | 4  | Iv> trip off                  |                          |
| 321 | 5 | 1  | I2> start on                  |                          |
| 322 | 5 | 2  | I2> trip on                   |                          |
| 323 | 5 | 3  | I2> start off                 |                          |
| 324 | 5 | 4  | I2> trip off                  |                          |
| 386 | 6 | 2  | dI> trip on                   |                          |

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|-----------------------|-----------------|--------------|--------------------|--------------|
| 388                   | 6               | 4            | dl> trip off       |              |
| 450                   | 7               | 2            | dl>> trip on       |              |
| 452                   | 7               | 4            | dl>> trip off      |              |
| 513                   | 8               | 1            | IDir> start on     |              |
| 514                   | 8               | 2            | IDir> trip on      |              |
| 515                   | 8               | 3            | IDir> start off    |              |
| 516                   | 8               | 4            | IDir> trip off     |              |
| 577                   | 9               | 1            | IDir>> start on    |              |
| 578                   | 9               | 2            | IDir>> trip on     |              |
| 579                   | 9               | 3            | IDir>> start off   |              |
| 580                   | 9               | 4            | IDir>> trip off    |              |
| 641                   | 10              | 1            | IDir>>> start on   |              |
| 642                   | 10              | 2            | IDir>>> trip on    |              |
| 643                   | 10              | 3            | IDir>>> start off  |              |
| 644                   | 10              | 4            | IDir>>> trip off   |              |
| 705                   | 11              | 1            | IDir>>>> start on  |              |
| 706                   | 11              | 2            | IDir>>>> trip on   |              |
| 707                   | 11              | 3            | IDir>>>> start off |              |
| 708                   | 11              | 4            | IDir>>>> trip off  |              |
| 770                   | 12              | 2            | I ARC trip on      | Arc card     |
| 772                   | 12              | 4            | I ARC trip off     |              |
| 833                   | 13              | 1            | I< start on        |              |
| 834                   | 13              | 2            | I< trip on         |              |
| 835                   | 13              | 3            | I< start off       |              |
| 836                   | 13              | 4            | I< trip off        |              |
| 897                   | 14              | 1            | T> start on        |              |
| 898                   | 14              | 2            | T> trip on         |              |
| 899                   | 14              | 3            | T> start off       |              |
| 900                   | 14              | 4            | T> trip off        |              |
| 962                   | 15              | 2            | I' ARC trip on     | Arc card     |
| 964                   | 15              | 4            | I' ARC trip off    |              |
| 1025                  | 16              | 1            | Ist> start on      | Motor option |
| 1026                  | 16              | 2            | Ist> trip on       |              |
| 1027                  | 16              | 3            | Ist> start off     | Motor option |
| 1028                  | 16              | 4            | Ist> trip off      |              |
| 1089                  | 17              | 1            | 2. Harm start on   |              |
| 1090                  | 17              | 2            | 2. Harm trip on    |              |
| 1091                  | 17              | 3            | 2. Harm start off  |              |
| 1092                  | 17              | 4            | 2. Harm trip off   |              |

| Profibus, Modbus Code | SPA bus Channel | SPA bus Code | Event Name               | Note         |
|-----------------------|-----------------|--------------|--------------------------|--------------|
| 1153                  | 18              | 1            | I2>> start on            | Motor option |
| 1154                  | 18              | 2            | I2>> trip on             |              |
| 1155                  | 18              | 3            | I2>> start off           |              |
| 1156                  | 18              | 4            | I2>> trip off            |              |
| 1217                  | 19              | 1            | O/C Alarm                |              |
| 1218                  | 19              | 2            | O/C Trip                 |              |
| 1219                  | 19              | 3            | O/C Alarm Off            |              |
| 1220                  | 19              | 4            | O/C Trip Off             |              |
| 1226                  | 19              | 1            | L1 Alarm                 |              |
| 1227                  | 19              | 11           | L1 Alarm Off             |              |
| 1228                  | 19              | 12           | L2 Alarm                 |              |
| 1229                  | 19              | 13           | L2 Alarm Off             |              |
| 1230                  | 19              | 14           | L3 Alarm                 |              |
| 1231                  | 19              | 15           | L3 Alarm Off             |              |
| 1281                  | 20              | 1            | Io> start on             |              |
| 1282                  | 20              | 2            | Io> trip on              |              |
| 1283                  | 20              | 3            | Io> start off            |              |
| 1284                  | 20              | 4            | Io> trip off             |              |
| 1345                  | 21              | 1            | Io>> start on            |              |
| 1346                  | 21              | 2            | Io>> trip on             |              |
| 1347                  | 21              | 3            | Io>> start off           |              |
| 1348                  | 21              | 4            | Io>> trip off            |              |
| 1409                  | 22              | 1            | Io>3> start on           |              |
| 1410                  | 22              | 2            | Io>3> trip on            |              |
| 1411                  | 22              | 3            | Io>3> start off          |              |
| 1412                  | 22              | 4            | Io>3> trip off           |              |
| 1473                  | 23              | 1            | IoDir> start on          |              |
| 1474                  | 23              | 2            | IoDir> trip on           |              |
| 1475                  | 23              | 3            | IoDir> start off         |              |
| 1476                  | 23              | 4            | IoDir> trip off          |              |
| 1537                  | 24              | 1            | IoDir>> start on         |              |
| 1538                  | 24              | 2            | IoDir>> trip on          |              |
| 1539                  | 24              | 3            | IoDir>> start off        |              |
| 1540                  | 24              | 4            | IoDir>> trip off         |              |
| 1601                  | 25              | 1            | Io>>> start on           |              |
| 1602                  | 25              | 2            | Io>>> trip on            |              |
| 1603                  | 25              | 3            | Io>>> start off          |              |
| 1604                  | 25              | 4            | Io>>> trip off           |              |
| 1611                  | 25              | 11           | Io>>> Trig unbalance     |              |
| 1612                  | 25              | 12           | Io>>> Trig off unbalance |              |

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|-----------------------|-----------------|--------------|---------------------------|----------|
| 1665                  | 26              | 1            | lo>>>> start on           |          |
| 1666                  | 26              | 2            | lo>>>> trip on            |          |
| 1667                  | 26              | 3            | lo>>>> start off          |          |
| 1668                  | 26              | 4            | lo>>>> trip off           |          |
| 1675                  | 26              | 11           | lo>>>> Trig unbalance     |          |
| 1676                  | 26              | 12           | lo>>>> Trig off unbalance |          |
| 1730                  | 27              | 2            | lo1 ARC trip on           | Arc card |
| 1732                  | 27              | 4            | lo1 ARC trip off          |          |
| 1794                  | 28              | 2            | lo2 ARC trip on           |          |
| 1796                  | 28              | 4            | lo2 ARC trip off          |          |
| 1857                  | 29              | 1            | Uof3< start on            |          |
| 1858                  | 29              | 2            | Uof3< trip on             |          |
| 1859                  | 29              | 3            | Uof3< start off           |          |
| 1860                  | 29              | 4            | Uof3< trip off            |          |
| 1921                  | 30              | 1            | U> start on               |          |
| 1922                  | 30              | 2            | U> trip on                |          |
| 1923                  | 30              | 3            | U> start off              |          |
| 1924                  | 30              | 4            | U> trip off               |          |
| 1985                  | 31              | 1            | U>> start on              |          |
| 1986                  | 31              | 2            | U>> trip on               |          |
| 1987                  | 31              | 3            | U>> start off             |          |
| 1988                  | 31              | 4            | U>> trip off              |          |
| 2049                  | 32              | 1            | U< start on               |          |
| 2050                  | 32              | 2            | U< trip on                |          |
| 2051                  | 32              | 3            | U< start off              |          |
| 2052                  | 32              | 4            | U< trip off               |          |
| 2113                  | 33              | 1            | U<< start on              |          |
| 2114                  | 33              | 2            | U<< trip on               |          |
| 2115                  | 33              | 3            | U<< start off             |          |
| 2116                  | 33              | 4            | U<< trip off              |          |
| 2177                  | 34              | 1            | U1< start on              |          |
| 2178                  | 34              | 2            | U1< trip on               |          |
| 2179                  | 34              | 3            | U1< start off             |          |
| 2180                  | 34              | 4            | U1< trip off              |          |
| 2241                  | 35              | 1            | U1<< start on             |          |
| 2242                  | 35              | 2            | U1<< trip on              |          |
| 2243                  | 35              | 3            | U1<< start off            |          |
| 2244                  | 35              | 4            | U1<< trip off             |          |
| 2305                  | 36              | 1            | Uo> start on              |          |
| 2306                  | 36              | 2            | Uo> trip on               |          |

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|      |    |   |                |  |
|------|----|---|----------------|--|
| 2307 | 36 | 3 | Uo> start off  |  |
| 2308 | 36 | 4 | Uo> trip off   |  |
| 2369 | 37 | 1 | Uo>> start on  |  |
| 2370 | 37 | 2 | Uo>> trip on   |  |
| 2371 | 37 | 3 | Uo>> start off |  |
| 2372 | 37 | 4 | Uo>> trip off  |  |
| 2433 | 38 | 1 | U>>> start on  |  |
| 2434 | 38 | 2 | U>>> trip on   |  |
| 2435 | 38 | 3 | U>>> start off |  |
| 2436 | 38 | 4 | U>>> trip off  |  |
| 2497 | 39 | 1 | U<<< start on  |  |
| 2498 | 39 | 2 | U<<< trip on   |  |
| 2499 | 39 | 3 | U<<< start off |  |
| 2500 | 39 | 4 | U<<< trip off  |  |
| 2561 | 40 | 1 | P< start on    |  |
| 2562 | 40 | 2 | P< trip on     |  |
| 2563 | 40 | 3 | P< start off   |  |
| 2564 | 40 | 4 | P< trip off    |  |
| 2625 | 41 | 1 | P<< start on   |  |
| 2626 | 41 | 2 | P<< trip on    |  |
| 2627 | 41 | 3 | P<< start off  |  |
| 2628 | 41 | 4 | P<< trip off   |  |
| 2689 | 42 | 1 | Q< start on    |  |
| 2690 | 42 | 2 | Q< trip on     |  |
| 2691 | 42 | 3 | Q< start off   |  |
| 2692 | 42 | 4 | Q< trip off    |  |
| 2753 | 43 | 1 | Z< start on    |  |
| 2754 | 43 | 2 | Z< trip on     |  |
| 2755 | 43 | 3 | Z< start off   |  |
| 2756 | 43 | 4 | Z< trip off    |  |
| 2817 | 44 | 1 | Z<< start on   |  |
| 2818 | 44 | 2 | Z<< trip on    |  |
| 2819 | 44 | 3 | Z<< start off  |  |
| 2820 | 44 | 4 | Z<< trip off   |  |

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|      |    |    |                            |          |  |
|------|----|----|----------------------------|----------|--|
| 2881 | 45 | 1  | ARC L> on                  | Arc card |  |
| 2882 | 45 | 2  | Delayed ARC L> on          |          |  |
| 2883 | 45 | 3  | ARC L> off                 |          |  |
| 2884 | 45 | 4  | Delayed ARC L> off         |          |  |
| 2885 | 45 | 5  | ARC 1 FAULT ON             |          |  |
| 2886 | 45 | 6  | ARC 2 FAULT ON             |          |  |
| 2887 | 45 | 7  | BI/O FAULT ON              |          |  |
| 2888 | 45 | 8  | ARC 1 fault off            |          |  |
| 2889 | 45 | 9  | ARC 2 fault off            |          |  |
| 2890 | 45 | 1  | BI/O fault off             |          |  |
| 2891 | 45 | 11 | ARC CARD FAULT             |          |  |
| 2892 | 45 | 12 | ARC 3 FAULT ON             |          |  |
| 2893 | 45 | 13 | ARC 3 fault off            |          |  |
| 2901 | 45 | 21 | ARC Sensor 1 ON            |          |  |
| 2902 | 45 | 22 | ARC Sensor 2 ON            |          |  |
| 2903 | 45 | 23 | ARC BIO ON                 |          |  |
| 2904 | 45 | 24 | ARC Sensor 1 off           |          |  |
| 2905 | 45 | 25 | ARC Sensor 2 off           |          |  |
| 2906 | 45 | 26 | ARC BIO off                |          |  |
| 2912 | 45 | 32 | 3S: arc sensor 1 on        |          |  |
| 2913 | 45 | 33 | 3S: arc sensor 2 on        |          |  |
| 2914 | 45 | 34 | 3S: arc sensor 3 on        |          |  |
| 2915 | 45 | 35 | 3S: arc sensor 1 off       |          |  |
| 2916 | 45 | 36 | 3S: arc sensor 2 off       |          |  |
| 2917 | 45 | 37 | 3S: arc sensor 3 off       |          |  |
| 2918 | 45 | 38 | 3S: arc sensor 1 fault on  |          |  |
| 2919 | 45 | 39 | 3S: arc sensor 2 fault on  |          |  |
| 2920 | 45 | 4  | 3S: arc sensor 3 fault on  |          |  |
| 2921 | 45 | 41 | 3S: arc sensor 1 fault off |          |  |
| 2922 | 45 | 42 | 3S: arc sensor 2 fault off |          |  |
| 2923 | 45 | 43 | 3S: arc sensor 3 fault off |          |  |
| 2924 | 45 | 44 | 3S: l>int. on              |          |  |
| 2925 | 45 | 45 | 3S: lo>int. on             |          |  |
| 2926 | 45 | 46 | 3S: l>int. off             |          |  |
| 2927 | 45 | 47 | 3S: lo>int. off            |          |  |
| 2928 | 45 | 48 | 3S: VO2 on                 |          |  |
| 2929 | 45 | 49 | 3S: VO1 on                 |          |  |
| 2930 | 45 | 5  | 3S: T1 on                  |          |  |
| 2931 | 45 | 51 | 3S: l>ext. on              |          |  |
| 2932 | 45 | 52 | 3S: Zone 1 on              |          |  |

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|      |    |    |                |  |
|------|----|----|----------------|--|
| 2933 | 45 | 53 | 3S: Zone 2 on  |  |
| 2934 | 45 | 54 | 3S: Zone 3 on  |  |
| 2935 | 45 | 55 | 3S: Zone 4 on  |  |
| 2936 | 45 | 56 | 3S: VO2 off    |  |
| 2937 | 45 | 57 | 3S: VO1 off    |  |
| 2938 | 45 | 58 | 3S: T1 off     |  |
| 2939 | 45 | 59 | 3S: l>ext. off |  |
| 2940 | 45 | 6  | 3S: Zone 1 off |  |
| 2941 | 45 | 61 | 3S: Zone 2 off |  |
| 2942 | 45 | 62 | 3S: Zone 3 off |  |
| 2943 | 45 | 63 | 3S: Zone 4 off |  |
| 2945 | 46 | 1  | Prg1 start on  |  |
| 2946 | 46 | 2  | Prg1 trip on   |  |
| 2947 | 46 | 3  | Prg1 start off |  |
| 2948 | 46 | 4  | Prg1 trip off  |  |
| 3009 | 47 | 1  | Prg2 start on  |  |
| 3010 | 47 | 2  | Prg2 trip on   |  |
| 3011 | 47 | 3  | Prg2 start off |  |
| 3012 | 47 | 4  | Prg2 trip off  |  |
| 3073 | 48 | 1  | Prg3 start on  |  |
| 3074 | 48 | 2  | Prg3 trip on   |  |
| 3075 | 48 | 3  | Prg3 start off |  |
| 3076 | 48 | 4  | Prg3 trip off  |  |
| 3137 | 49 | 1  | Prg4 start on  |  |
| 3138 | 49 | 2  | Prg4 trip on   |  |
| 3139 | 49 | 3  | Prg4 start off |  |
| 3140 | 49 | 4  | Prg4 trip off  |  |
| 3201 | 50 | 1  | fX start on    |  |
| 3202 | 50 | 2  | fX trip on     |  |
| 3203 | 50 | 3  | fX start off   |  |
| 3204 | 50 | 4  | fX trip off    |  |
| 3265 | 51 | 1  | fXX start on   |  |
| 3266 | 51 | 2  | fXX trip on    |  |
| 3267 | 51 | 3  | fXX start off  |  |
| 3268 | 51 | 4  | fXX trip off   |  |
| 3329 | 52 | 1  | f< start on    |  |
| 3330 | 52 | 2  | f< trip on     |  |
| 3331 | 52 | 3  | f< start off   |  |
| 3332 | 52 | 4  | f< trip off    |  |
| 3393 | 53 | 1  | f<< start on   |  |



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|      |    |   |                 |  |
|------|----|---|-----------------|--|
| 3394 | 53 | 2 | f<< trip on     |  |
| 3395 | 53 | 3 | f<< start off   |  |
| 3396 | 53 | 4 | f<< trip off    |  |
| 3457 | 54 | 1 | df/dt start on  |  |
| 3458 | 54 | 2 | df/dt trip on   |  |
| 3459 | 54 | 3 | df/dt start off |  |
| 3460 | 54 | 4 | df/dt trip off  |  |
| 3521 | 55 | 1 | U/f> start on   |  |
| 3522 | 55 | 2 | U/f> trip on    |  |
| 3523 | 55 | 3 | U/f> start off  |  |
| 3524 | 55 | 4 | U/f> trip off   |  |
| 3585 | 56 | 1 | Prg5 start on   |  |
| 3586 | 56 | 2 | Prg5 trip on    |  |
| 3587 | 56 | 3 | Prg5 start off  |  |
| 3588 | 56 | 4 | Prg5 trip off   |  |
| 3649 | 57 | 1 | Prg6 start on   |  |
| 3650 | 57 | 2 | Prg6 trip on    |  |
| 3651 | 57 | 3 | Prg6 start off  |  |
| 3652 | 57 | 4 | Prg6 trip off   |  |
| 3713 | 58 | 1 | Prg7 start on   |  |
| 3714 | 58 | 2 | Prg7 trip on    |  |
| 3715 | 58 | 3 | Prg7 start off  |  |
| 3716 | 58 | 4 | Prg7 trip off   |  |
| 3777 | 59 | 1 | Prg8 start on   |  |
| 3778 | 59 | 2 | Prg8 trip on    |  |
| 3779 | 59 | 3 | Prg8 start off  |  |
| 3780 | 59 | 4 | Prg8 trip off   |  |
| 3841 | 60 | 1 | CBFP start on   |  |
| 3842 | 60 | 2 | CBFP trip on    |  |
| 3843 | 60 | 3 | CBFP start off  |  |
| 3844 | 60 | 4 | CBFP trip off   |  |
| 3905 | 61 | 1 | AR request 1    |  |
| 3906 | 61 | 2 | AR request 2    |  |
| 3907 | 61 | 3 | AR request 3    |  |
| 3908 | 61 | 4 | AR request 4    |  |
| 3909 | 61 | 5 | AR request 5    |  |
| 3910 | 61 | 6 | AR shot 1 start |  |
| 3911 | 61 | 7 | AR shot 2 start |  |
| 3912 | 61 | 8 | AR shot 3 start |  |
| 3913 | 61 | 9 | AR shot 4 start |  |

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|--------------------------------------|----------------------------|-------------------------|----------------------|--------------|
| 3914                                 | 61                         | 1                       | AR shot 5 start      |              |
| 3915                                 | 61                         | 11                      | Critical AR req.     |              |
| 3916                                 | 61                         | 12                      | Reclose locked       |              |
| 3917                                 | 61                         | 13                      | Reclose running      |              |
| 3918                                 | 61                         | 14                      | Final trip           |              |
| 3919                                 | 61                         | 15                      | AR1 req END          |              |
| 3920                                 | 61                         | 16                      | AR2 req END          |              |
| 3921                                 | 61                         | 17                      | AR3 req END          |              |
| 3922                                 | 61                         | 18                      | AR4 req END          |              |
| 3923                                 | 61                         | 19                      | AR5 req END          |              |
| 3924                                 | 61                         | 2                       | Shot 1 END           |              |
| 3925                                 | 61                         | 21                      | Shot 2 END           |              |
| 3926                                 | 61                         | 22                      | Shot 3 END           |              |
| 3927                                 | 61                         | 23                      | Shot 4 END           |              |
| 3928                                 | 61                         | 24                      | Shot 5 END           |              |
| 3929                                 | 61                         | 25                      | Critical AR END      |              |
| 3930                                 | 61                         | 26                      | Reclose unlocked     |              |
| 3931                                 | 61                         | 27                      | Reclose stopped      |              |
| 3932                                 | 61                         | 28                      | Final trip END       |              |
| 3933                                 | 61                         | 29                      | AR enabled           |              |
| 3934                                 | 61                         | 3                       | AR disabled          |              |
| 3935                                 | 61                         | 31                      | Crit. final trip     |              |
| 3936                                 | 61                         | 32                      | AR1 final trip       |              |
| 3937                                 | 61                         | 33                      | AR2 final trip       |              |
| 3938                                 | 61                         | 34                      | AR3 final trip       |              |
| 3939                                 | 61                         | 35                      | AR4 final trip       |              |
| 3940                                 | 61                         | 36                      | Crit. final trip off |              |
| 3941                                 | 61                         | 37                      | AR1 final trip off   |              |
| 3942                                 | 61                         | 38                      | AR2 final trip off   |              |
| 3943                                 | 61                         | 39                      | AR3 final trip off   |              |
| 3944                                 | 61                         | 4                       | AR4 final trip off   |              |
| 3969                                 | 62                         | 1                       | N> alarm on          | Motor option |
| 3970                                 | 62                         | 2                       | Motor start disabled |              |
| 3971                                 | 62                         | 3                       | N> alarm off         |              |
| 3972                                 | 62                         | 4                       | Motor start enabled  |              |
| 4033                                 | 63                         | 1                       | Motor starting       | Motor option |
| 4034                                 | 63                         | 2                       | Motor running        |              |
| 4035                                 | 63                         | 3                       | Motor started        |              |
| 4036                                 | 63                         | 4                       | Motor stopped        |              |
| 4097                                 | 64                         | 1                       | Voltage int. on      |              |

| <b>Profibus,<br/>Modbus<br/>Code</b> | <b>SPA bus<br/>Channel</b> | <b>SPA bus<br/>Code</b> | <b>Event Name</b> | <b>Note</b> |
|--------------------------------------|----------------------------|-------------------------|-------------------|-------------|
|--------------------------------------|----------------------------|-------------------------|-------------------|-------------|

|      |    |    |                       |  |
|------|----|----|-----------------------|--|
| 4098 | 64 | 2  | Voltage int. off      |  |
| 4106 | 64 | 1  | Voltage sag on        |  |
| 4107 | 64 | 11 | Voltage sag off       |  |
| 4108 | 64 | 12 | Voltage swell on      |  |
| 4109 | 64 | 13 | Voltage swell off     |  |
| 4110 | 64 | 14 | Voltage sag timeout   |  |
| 4111 | 64 | 15 | Voltage swell timeout |  |
| 4126 | 64 | 3  | EF Distance on        |  |
| 4127 | 64 | 31 | EFD calc. ready       |  |
| 4136 | 64 | 4  | Manual timer control  |  |
| 4137 | 64 | 41 | Manual timer ctrl off |  |
| 4138 | 64 | 42 | Timer 1 on            |  |
| 4139 | 64 | 43 | Timer 1 off           |  |
| 4140 | 64 | 44 | Timer 2 on            |  |
| 4141 | 64 | 45 | Timer 2 off           |  |
| 4142 | 64 | 46 | Timer 3 on            |  |
| 4143 | 64 | 47 | Timer 3 off           |  |
| 4144 | 64 | 48 | Timer 4 on            |  |
| 4145 | 64 | 49 | Timer 4 off           |  |
| 4161 | 65 | 1  | Logic output 1 on     |  |
| 4162 | 65 | 2  | Logic output 1 off    |  |
| 4163 | 65 | 3  | Logic output 2 on     |  |
| 4164 | 65 | 4  | Logic output 2 off    |  |
| 4165 | 65 | 5  | Logic output 3 on     |  |
| 4166 | 65 | 6  | Logic output 3 off    |  |
| 4167 | 65 | 7  | Logic output 4 on     |  |
| 4168 | 65 | 8  | Logic output 4 off    |  |
| 4169 | 65 | 9  | Logic output 5 on     |  |
| 4170 | 65 | 1  | Logic output 5 off    |  |
| 4171 | 65 | 11 | Logic output 6 on     |  |
| 4172 | 65 | 12 | Logic output 6 off    |  |
| 4173 | 65 | 13 | Logic output 7 on     |  |
| 4174 | 65 | 14 | Logic output 7 off    |  |
| 4175 | 65 | 15 | Logic output 8 on     |  |
| 4176 | 65 | 16 | Logic output 8 off    |  |
| 4177 | 65 | 17 | Logic output 9 on     |  |
| 4178 | 65 | 18 | Logic output 9 off    |  |
| 4179 | 65 | 19 | Logic output 10 on    |  |
| 4180 | 65 | 2  | Logic output 10 off   |  |
| 4181 | 65 | 21 | Logic output 11 on    |  |

| <b>Profibus,<br/>Modbus<br/>Code</b> | <b>SPA bus<br/>Channel</b> | <b>SPA bus<br/>Code</b> | <b>Event Name</b>   | <b>Note</b> |
|--------------------------------------|----------------------------|-------------------------|---------------------|-------------|
| 4182                                 | 65                         | 22                      | Logic output 11 off |             |
| 4183                                 | 65                         | 23                      | Logic output 12 on  |             |
| 4184                                 | 65                         | 24                      | Logic output 12 off |             |
| 4185                                 | 65                         | 25                      | Logic output 13 on  |             |
| 4186                                 | 65                         | 26                      | Logic output 13 off |             |
| 4187                                 | 65                         | 27                      | Logic output 14 on  |             |
| 4188                                 | 65                         | 28                      | Logic output 14 off |             |
| 4189                                 | 65                         | 29                      | Logic output 15 on  |             |
| 4190                                 | 65                         | 3                       | Logic output 15 off |             |
| 4191                                 | 65                         | 31                      | Logic output 16 on  |             |
| 4192                                 | 65                         | 32                      | Logic output 16 off |             |
| 4193                                 | 65                         | 33                      | Logic output 17 on  |             |
| 4194                                 | 65                         | 34                      | Logic output 17 off |             |
| 4195                                 | 65                         | 35                      | Logic output 18 on  |             |
| 4196                                 | 65                         | 36                      | Logic output 18 off |             |
| 4197                                 | 65                         | 37                      | Logic output 19 on  |             |
| 4198                                 | 65                         | 38                      | Logic output 19 off |             |
| 4199                                 | 65                         | 39                      | Logic output 20 on  |             |
| 4200                                 | 65                         | 4                       | Logic output 20 off |             |
| 4225                                 | 66                         | 1                       | CB wear alarm 1 on  |             |
| 4226                                 | 66                         | 2                       | CB wear alarm 1 off |             |
| 4227                                 | 66                         | 3                       | CB wear alarm 2 on  |             |
| 4228                                 | 66                         | 4                       | CB wear alarm 2 off |             |
| 4290                                 | 67                         | 2                       | CT supervisor on    |             |
| 4292                                 | 67                         | 4                       | CT supervisor off   |             |
| 4354                                 | 68                         | 2                       | VT supervisor on    |             |
| 4356                                 | 68                         | 4                       | VT supervisor off   |             |
| 4417                                 | 69                         | 1                       | VI1 on              |             |
| 4418                                 | 69                         | 2                       | VI1 off             |             |
| 4419                                 | 69                         | 3                       | VI2 on              |             |
| 4420                                 | 69                         | 4                       | VI2 off             |             |
| 4421                                 | 69                         | 5                       | VI3 on              |             |
| 4422                                 | 69                         | 6                       | VI3 off             |             |
| 4423                                 | 69                         | 7                       | VI4 on              |             |
| 4424                                 | 69                         | 8                       | VI4 off             |             |
| 4433                                 | 69                         | 17                      | VO1 on              |             |
| 4434                                 | 69                         | 18                      | VO1 off             |             |
| 4435                                 | 69                         | 19                      | VO2 on              |             |
| 4436                                 | 69                         | 2                       | VO2 off             |             |
| 4437                                 | 69                         | 21                      | VO3 on              |             |

| <b>Profibus,<br/>Modbus<br/>Code</b> | <b>SPA bus<br/>Channel</b> | <b>SPA bus<br/>Code</b> | <b>Event Name</b>             | <b>Note</b> |
|--------------------------------------|----------------------------|-------------------------|-------------------------------|-------------|
| 4438                                 | 69                         | 22                      | VO3 off                       |             |
| 4439                                 | 69                         | 23                      | VO4 on                        |             |
| 4440                                 | 69                         | 24                      | VO4 off                       |             |
| 4441                                 | 69                         | 25                      | VO5 on                        |             |
| 4442                                 | 69                         | 26                      | VO5 off                       |             |
| 4443                                 | 69                         | 27                      | VO6 on                        |             |
| 4444                                 | 69                         | 28                      | VO6 off                       |             |
| 4481                                 | 70                         | 1                       | Remote                        |             |
| 4482                                 | 70                         | 2                       | Local                         |             |
| 4483                                 | 70                         | 3                       | Pwd open panel                |             |
| 4484                                 | 70                         | 4                       | Pwd close panel               |             |
| 4485                                 | 70                         | 5                       | Pwd open PCser                |             |
| 4486                                 | 70                         | 6                       | Pwd close PCser               |             |
| 4487                                 | 70                         | 7                       | Setting chg panel             |             |
| 4488                                 | 70                         | 8                       | Setting chg PCser             |             |
| 4489                                 | 70                         | 9                       | Firmware update               |             |
| 4545                                 | 71                         | 1                       | Obj1 open                     |             |
| 4546                                 | 71                         | 2                       | Obj1 closed                   |             |
| 4547                                 | 71                         | 3                       | Obj1 undef (11)               |             |
| 4548                                 | 71                         | 4                       | Obj1 undef (00)               |             |
| 4549                                 | 71                         | 5                       | Obj1 open output on           |             |
| 4550                                 | 71                         | 6                       | Obj1 open output off          |             |
| 4551                                 | 71                         | 7                       | Obj1 close output<br>activate |             |
| 4552                                 | 71                         | 8                       | Obj1 close output END         |             |
| 4553                                 | 71                         | 9                       | Obj1 interlocked              |             |
| 4554                                 | 71                         | 1                       | Obj1 open timeout             |             |
| 4555                                 | 71                         | 11                      | Obj1 close timeout            |             |
| 4556                                 | 71                         | 12                      | Obj1 ready timeout            |             |
| 4557                                 | 71                         | 13                      | Obj1 final trip               |             |
| 4558                                 | 71                         | 14                      | Obj1 final trip off           |             |
| 4559                                 | 71                         | 15                      | Obj1 open blocking on         |             |
| 4560                                 | 71                         | 16                      | Obj1 open blocking off        |             |
| 4561                                 | 71                         | 17                      | Obj1 close blocking on        |             |
| 4562                                 | 71                         | 18                      | Obj1 close blocking off       |             |
| 4609                                 | 72                         | 1                       | Obj2 open                     |             |
| 4610                                 | 72                         | 2                       | Obj2 closed                   |             |
| 4611                                 | 72                         | 3                       | Obj2 undef (11)               |             |
| 4612                                 | 72                         | 4                       | Obj2 undef (00)               |             |
| 4613                                 | 72                         | 5                       | Obj2 open output on           |             |

| <b>Profibus,<br/>Modbus<br/>Code</b> | <b>SPA bus<br/>Channel</b> | <b>SPA bus<br/>Code</b> | <b>Event Name</b>          | <b>Note</b> |
|--------------------------------------|----------------------------|-------------------------|----------------------------|-------------|
| 4614                                 | 72                         | 6                       | Obj2 open output off       |             |
| 4615                                 | 72                         | 7                       | Obj2 close output activate |             |
| 4616                                 | 72                         | 8                       | Obj2 close output END      |             |
| 4617                                 | 72                         | 9                       | Obj2 interlocked           |             |
| 4618                                 | 72                         | 1                       | Obj2 open timeout          |             |
| 4619                                 | 72                         | 11                      | Obj2 close timeout         |             |
| 4620                                 | 72                         | 12                      | Obj2 ready timeout         |             |
| 4621                                 | 72                         | 13                      | Obj2 final trip            |             |
| 4622                                 | 72                         | 14                      | Obj2 final trip off        |             |
| 4623                                 | 72                         | 15                      | Obj2 open blocking on      |             |
| 4624                                 | 72                         | 16                      | Obj2 open blocking off     |             |
| 4625                                 | 72                         | 17                      | Obj2 close blocking on     |             |
| 4626                                 | 72                         | 18                      | Obj2 close blocking off    |             |
| 4673                                 | 73                         | 1                       | Obj3 open                  |             |
| 4674                                 | 73                         | 2                       | Obj3 closed                |             |
| 4675                                 | 73                         | 3                       | Obj3 undef (11)            |             |
| 4676                                 | 73                         | 4                       | Obj3 undef (00)            |             |
| 4677                                 | 73                         | 5                       | Obj3 open output on        |             |
| 4678                                 | 73                         | 6                       | Obj3 open output off       |             |
| 4679                                 | 73                         | 7                       | Obj3 close output activate |             |
| 4680                                 | 73                         | 8                       | Obj3 close output END      |             |
| 4681                                 | 73                         | 9                       | Obj3 interlocked           |             |
| 4682                                 | 73                         | 1                       | Obj3 open timeout          |             |
| 4683                                 | 73                         | 11                      | Obj3 close timeout         |             |
| 4684                                 | 73                         | 12                      | Obj3 ready timeout         |             |
| 4685                                 | 73                         | 13                      | Obj3 final trip            |             |
| 4686                                 | 73                         | 14                      | Obj3 final trip off        |             |
| 4687                                 | 73                         | 15                      | Obj3 open blocking on      |             |
| 4688                                 | 73                         | 16                      | Obj3 open blocking off     |             |
| 4689                                 | 73                         | 17                      | Obj3 close blocking on     |             |
| 4690                                 | 73                         | 18                      | Obj3 close blocking off    |             |
| 4737                                 | 74                         | 1                       | Obj4 open                  |             |
| 4738                                 | 74                         | 2                       | Obj4 closed                |             |
| 4739                                 | 74                         | 3                       | Obj4 undef (11)            |             |
| 4740                                 | 74                         | 4                       | Obj4 undef (00)            |             |
| 4741                                 | 74                         | 5                       | Obj4 open output on        |             |
| 4742                                 | 74                         | 6                       | Obj4 open output off       |             |
| 4743                                 | 74                         | 7                       | Obj4 close output activate |             |

| <b>Profibus,<br/>Modbus<br/>Code</b> | <b>SPA bus<br/>Channel</b> | <b>SPA bus<br/>Code</b> | <b>Event Name</b>             | <b>Note</b> |
|--------------------------------------|----------------------------|-------------------------|-------------------------------|-------------|
| 4744                                 | 74                         | 8                       | Obj4 close output END         |             |
| 4745                                 | 74                         | 9                       | Obj4 interlocked              |             |
| 4746                                 | 74                         | 1                       | Obj4 open timeout             |             |
| 4747                                 | 74                         | 11                      | Obj4 close timeout            |             |
| 4748                                 | 74                         | 12                      | Obj4 ready timeout            |             |
| 4749                                 | 74                         | 13                      | Obj4 final trip               |             |
| 4750                                 | 74                         | 14                      | Obj4 final trip off           |             |
| 4751                                 | 74                         | 15                      | Obj4 open blocking on         |             |
| 4752                                 | 74                         | 16                      | Obj4 open blocking off        |             |
| 4753                                 | 74                         | 17                      | Obj4 close blocking on        |             |
| 4754                                 | 74                         | 18                      | Obj4 close blocking off       |             |
| 4801                                 | 75                         | 1                       | Obj5 open                     |             |
| 4802                                 | 75                         | 2                       | Obj5 closed                   |             |
| 4803                                 | 75                         | 3                       | Obj5 undef (11)               |             |
| 4804                                 | 75                         | 4                       | Obj5 undef (00)               |             |
| 4805                                 | 75                         | 5                       | Obj5 open output on           |             |
| 4806                                 | 75                         | 6                       | Obj5 open output off          |             |
| 4807                                 | 75                         | 7                       | Obj5 close output<br>activate |             |
| 4808                                 | 75                         | 8                       | Obj5 close output END         |             |
| 4809                                 | 75                         | 9                       | Obj5 interlocked              |             |
| 4810                                 | 75                         | 1                       | Obj5 open timeout             |             |
| 4811                                 | 75                         | 11                      | Obj5 close timeout            |             |
| 4812                                 | 75                         | 12                      | Obj5 ready timeout            |             |
| 4813                                 | 75                         | 13                      | Obj5 final trip               |             |
| 4814                                 | 75                         | 14                      | Obj5 final trip off           |             |
| 4815                                 | 75                         | 15                      | Obj5 open blocking on         |             |
| 4816                                 | 75                         | 16                      | Obj5 open blocking off        |             |
| 4817                                 | 75                         | 17                      | Obj5 close blocking on        |             |
| 4818                                 | 75                         | 18                      | Obj5 close blocking off       |             |
| 4865                                 | 76                         | 1                       | Obj6 open                     |             |
| 4866                                 | 76                         | 2                       | Obj6 closed                   |             |
| 4867                                 | 76                         | 3                       | Obj6 undef (11)               |             |
| 4868                                 | 76                         | 4                       | Obj6 undef (00)               |             |
| 4869                                 | 76                         | 5                       | Obj6 open output on           |             |
| 4870                                 | 76                         | 6                       | Obj6 open output off          |             |
| 4871                                 | 76                         | 7                       | Obj6 close output<br>activate |             |
| 4872                                 | 76                         | 8                       | Obj6 close output END         |             |
| 4873                                 | 76                         | 9                       | Obj6 interlocked              |             |

| Profibus, Modbus Code | SPA bus Channel | SPA bus Code | Event Name | Note |
|-----------------------|-----------------|--------------|------------|------|
|-----------------------|-----------------|--------------|------------|------|

|      |    |    |                         |                           |
|------|----|----|-------------------------|---------------------------|
| 4874 | 76 | 1  | Obj6 open timeout       |                           |
| 4875 | 76 | 11 | Obj6 close timeout      |                           |
| 4876 | 76 | 12 | Obj6 ready timeout      |                           |
| 4877 | 76 | 13 | Obj6 final trip         |                           |
| 4878 | 76 | 14 | Obj6 final trip off     |                           |
| 4879 | 76 | 15 | Obj6 open blocking on   |                           |
| 4880 | 76 | 16 | Obj6 open blocking off  |                           |
| 4881 | 76 | 17 | Obj1 close blocking on  |                           |
| 4882 | 76 | 18 | Obj1 close blocking off |                           |
| 4929 | 77 | 1  | Obj7 open               |                           |
| 4930 | 77 | 2  | Obj7 closed             |                           |
| 4931 | 77 | 3  | Obj7 undef (11)         |                           |
| 4932 | 77 | 4  | Obj7 undef (00)         |                           |
| 4993 | 78 | 1  | Obj8 open               |                           |
| 4994 | 78 | 2  | Obj8 closed             |                           |
| 4995 | 78 | 3  | Obj8 undef (11)         |                           |
| 4996 | 78 | 4  | Obj8 undef (00)         |                           |
| 5185 | 81 | 1  | Ext. DI1 on             | ExternalIO must be in use |
| 5186 | 81 | 2  | Ext. DI1 off            |                           |
| 5187 | 81 | 3  | Ext. DI2 on             |                           |
| 5188 | 81 | 4  | Ext. DI2 off            |                           |
| 5189 | 81 | 5  | Ext. DI3 on             |                           |
| 5190 | 81 | 6  | Ext. DI3 off            |                           |
| 5191 | 81 | 7  | Ext. DI4 on             |                           |
| 5192 | 81 | 8  | Ext. DI4 off            |                           |
| 5193 | 81 | 9  | Ext. DI5 on             |                           |
| 5194 | 81 | 1  | Ext. DI5 off            |                           |
| 5195 | 81 | 11 | Ext. DI6 on             |                           |
| 5196 | 81 | 12 | Ext. DI6 off            |                           |
| 5197 | 81 | 13 | Ext. DI7 on             |                           |
| 5198 | 81 | 14 | Ext. DI7 off            |                           |
| 5199 | 81 | 15 | Ext. DI8 on             |                           |
| 5200 | 81 | 16 | Ext. DI8 off            |                           |
| 5201 | 81 | 17 | Ext. DI9 on             |                           |
| 5202 | 81 | 18 | Ext. DI9 off            |                           |
| 5203 | 81 | 19 | Ext. DI10 on            |                           |
| 5204 | 81 | 2  | Ext. DI10 off           |                           |
| 5205 | 81 | 21 | Ext. DI11 on            |                           |
| 5206 | 81 | 22 | Ext. DI11 off           |                           |
| 5207 | 81 | 23 | Ext. DI12 on            |                           |



| Profibus, Modbus Code | SPA bus Channel | SPA bus Code | Event Name | Note |
|-----------------------|-----------------|--------------|------------|------|
|-----------------------|-----------------|--------------|------------|------|

|      |    |    |                      |  |
|------|----|----|----------------------|--|
| 5208 | 81 | 24 | Ext. DI12 off        |  |
| 5209 | 81 | 25 | Ext. DI13 on         |  |
| 5210 | 81 | 26 | Ext. DI13 off        |  |
| 5211 | 81 | 27 | Ext. DI14 on         |  |
| 5212 | 81 | 28 | Ext. DI14 off        |  |
| 5213 | 81 | 29 | Ext. DI15 on         |  |
| 5214 | 81 | 3  | Ext. DI15 off        |  |
| 5215 | 81 | 31 | Ext. DI16 on         |  |
| 5216 | 81 | 32 | Ext. DI16 off        |  |
| 5218 | 81 | 34 | Ext. DI17 off        |  |
| 5219 | 81 | 35 | Ext. DI18 on         |  |
| 5220 | 81 | 36 | Ext. DI18 off        |  |
| 5249 | 82 | 1  | Alarm 1 Ext AI1 on   |  |
| 5250 | 82 | 2  | Alarm 1 Ext AI1 off  |  |
| 5251 | 82 | 3  | Alarm 1 Ext AI2 on   |  |
| 5252 | 82 | 4  | Alarm 1 Ext AI2 off  |  |
| 5253 | 82 | 5  | Alarm 1 Ext AI3 on   |  |
| 5254 | 82 | 6  | Alarm 1 Ext AI3 off  |  |
| 5255 | 82 | 7  | Alarm 1 Ext AI4 on   |  |
| 5256 | 82 | 8  | Alarm 1 Ext AI4 off  |  |
| 5257 | 82 | 9  | Alarm 1 Ext AI5 on   |  |
| 5258 | 82 | 1  | Alarm 1 Ext AI5 off  |  |
| 5259 | 82 | 11 | Alarm 1 Ext AI6 on   |  |
| 5260 | 82 | 12 | Alarm 1 Ext AI6 off  |  |
| 5261 | 82 | 13 | Alarm 1 Ext AI7 on   |  |
| 5262 | 82 | 14 | Alarm 1 Ext AI7 off  |  |
| 5263 | 82 | 15 | Alarm 1 Ext AI8 on   |  |
| 5264 | 82 | 16 | Alarm 1 Ext AI8 off  |  |
| 5265 | 82 | 17 | Alarm 1 Ext AI9 on   |  |
| 5266 | 82 | 18 | Alarm 1 Ext AI9 off  |  |
| 5267 | 82 | 19 | Alarm 1 Ext AI10 on  |  |
| 5268 | 82 | 2  | Alarm 1 Ext AI10 off |  |
| 5269 | 82 | 21 | Alarm 1 Ext AI11 on  |  |
| 5270 | 82 | 22 | Alarm 1 Ext AI11 off |  |
| 5271 | 82 | 23 | Alarm 1 Ext AI12 on  |  |
| 5272 | 82 | 24 | Alarm 1 Ext AI12 off |  |
| 5273 | 82 | 25 | Alarm 1 Ext AI13 on  |  |
| 5274 | 82 | 26 | Alarm 1 Ext AI13 off |  |
| 5275 | 82 | 27 | Alarm 1 Ext AI14 on  |  |
| 5276 | 82 | 28 | Alarm 1 Ext AI14 off |  |

| Profibus,<br>Modbus<br>Code | SPA bus<br>Channel | SPA bus<br>Code | Event Name           | Note                         |
|-----------------------------|--------------------|-----------------|----------------------|------------------------------|
| 5277                        | 82                 | 29              | Alarm 1 Ext AI15 on  |                              |
| 5278                        | 82                 | 3               | Alarm 1 Ext AI15 off |                              |
| 5279                        | 82                 | 31              | Alarm 1 Ext AI16 on  |                              |
| 5280                        | 82                 | 32              | Alarm 1 Ext AI16 off |                              |
| 5313                        | 83                 | 1               | Alarm 2 Ext AI1 on   |                              |
| 5314                        | 83                 | 2               | Alarm 2 Ext AI1 off  |                              |
| 5315                        | 83                 | 3               | Alarm 2 Ext AI2 on   |                              |
| 5316                        | 83                 | 4               | Alarm 2 Ext AI2 off  |                              |
| 5317                        | 83                 | 5               | Alarm 2 Ext AI3 on   | ExternallO must be in<br>use |
| 5318                        | 83                 | 6               | Alarm 2 Ext AI3 off  |                              |
| 5319                        | 83                 | 7               | Alarm 2 Ext AI4 on   |                              |
| 5320                        | 83                 | 8               | Alarm 2 Ext AI4 off  |                              |
| 5321                        | 83                 | 9               | Alarm 2 Ext AI5 on   |                              |
| 5322                        | 83                 | 1               | Alarm 2 Ext AI5 off  |                              |
| 5323                        | 83                 | 11              | Alarm 2 Ext AI6 on   |                              |
| 5324                        | 83                 | 12              | Alarm 2 Ext AI6 off  |                              |
| 5325                        | 83                 | 13              | Alarm 2 Ext AI7 on   |                              |
| 5326                        | 83                 | 14              | Alarm 2 Ext AI7 off  |                              |
| 5327                        | 83                 | 15              | Alarm 2 Ext AI8 on   |                              |
| 5328                        | 83                 | 16              | Alarm 2 Ext AI8 off  |                              |
| 5329                        | 83                 | 17              | Alarm 2 Ext AI9 on   |                              |
| 5330                        | 83                 | 18              | Alarm 2 Ext AI9 off  |                              |
| 5331                        | 83                 | 19              | Alarm 2 Ext AI10 on  |                              |
| 5332                        | 83                 | 2               | Alarm 2 Ext AI10 off |                              |
| 5333                        | 83                 | 21              | Alarm 2 Ext AI11 on  |                              |
| 5334                        | 83                 | 22              | Alarm 2 Ext AI11 off |                              |
| 5335                        | 83                 | 23              | Alarm 2 Ext AI12 on  |                              |
| 5336                        | 83                 | 24              | Alarm 2 Ext AI12 off |                              |
| 5337                        | 83                 | 25              | Alarm 2 Ext AI13 on  |                              |
| 5338                        | 83                 | 26              | Alarm 2 Ext AI13 off |                              |
| 5339                        | 83                 | 27              | Alarm 2 Ext AI14 on  |                              |
| 5340                        | 83                 | 28              | Alarm 2 Ext AI14 off |                              |
| 5341                        | 83                 | 29              | Alarm 2 Ext AI15 on  |                              |
| 5342                        | 83                 | 3               | Alarm 2 Ext AI15 off |                              |
| 5343                        | 83                 | 31              | Alarm 2 Ext AI16 on  |                              |
| 5344                        | 83                 | 32              | Alarm 2 Ext AI16 off |                              |
| 5377                        | 84                 | 1               | I'2> start on        |                              |
| 5378                        | 84                 | 2               | I'2> trip on         |                              |
| 5379                        | 84                 | 3               | I'2> start off       |                              |
| 5380                        | 84                 | 4               | I'2> trip off        |                              |

| Profibus,<br>Modbus<br>Code | SPA bus<br>Channel | SPA bus<br>Code | Event Name                    | Note                       |
|-----------------------------|--------------------|-----------------|-------------------------------|----------------------------|
| 5441                        | 85                 | 1               | X< start on                   |                            |
| 5442                        | 85                 | 2               | X< trip on                    |                            |
| 5443                        | 85                 | 3               | X< start off                  |                            |
| 5444                        | 85                 | 4               | X< trip off                   |                            |
| 5505                        | 86                 | 1               | X<< start on                  |                            |
| 5506                        | 86                 | 2               | X<< trip on                   |                            |
| 5507                        | 86                 | 3               | X<< start off                 |                            |
| 5508                        | 86                 | 4               | X<< trip off                  |                            |
| 5569                        | 87                 | 1               | Synchrocheck 1 request        | Voltage mode<br>LL/LLy/LLz |
| 5570                        | 87                 | 2               | Synchrocheck 1 request<br>off |                            |
| 5571                        | 87                 | 3               | Synchrocheck 1 OK on          |                            |
| 5572                        | 87                 | 4               | Synchrocheck 1 OK off         |                            |
| 5573                        | 87                 | 5               | Synchrocheck 1 bypass         |                            |
| 5574                        | 87                 | 6               | Synchrocheck 1 bypass<br>off  |                            |
| 5575                        | 87                 | 7               | Synchrocheck 1 failed         |                            |
| 5576                        | 87                 | 8               | Synchrocheck 1 fail off       |                            |
| 5633                        | 88                 | 1               | Synchrocheck 2 request        |                            |
| 5634                        | 88                 | 2               | Synchrocheck 2 request<br>off |                            |
| 5635                        | 88                 | 3               | Synchrocheck 2 OK on          |                            |
| 5636                        | 88                 | 4               | Synchrocheck 2 OK off         |                            |
| 5637                        | 88                 | 5               | Synchrocheck 2 bypass         |                            |
| 5638                        | 88                 | 6               | Synchrocheck 2 bypass<br>off  |                            |
| 5639                        | 88                 | 7               | Synchrocheck 2 failed         |                            |
| 5640                        | 88                 | 8               | Synchrocheck 2 fail off       |                            |
| 5697                        | 89                 | 1               | Set group 1 on                |                            |
| 5698                        | 89                 | 2               | Set group 1 off               |                            |
| 5699                        | 89                 | 3               | Set group 2 on                |                            |
| 5700                        | 89                 | 4               | Set group 2 off               |                            |
| 5761                        | 90                 | 1               | DI21 on                       |                            |
| 5762                        | 90                 | 2               | DI21 off                      |                            |
| 5763                        | 90                 | 3               | DI22 on                       |                            |
| 5764                        | 90                 | 4               | DI22 off                      |                            |
| 5765                        | 90                 | 5               | DI23 on                       |                            |
| 5766                        | 90                 | 6               | DI23 off                      |                            |
| 5767                        | 90                 | 7               | DI24 on                       |                            |
| 5768                        | 90                 | 8               | DI24 off                      |                            |
| 5769                        | 90                 | 9               | DI25 on                       |                            |

| Profibus, Modbus Code | SPA bus Channel | SPA bus Code | Event Name         | Note |
|-----------------------|-----------------|--------------|--------------------|------|
| 5770                  | 90              | 1            | DI25 off           |      |
| 5771                  | 90              | 11           | DI26 on            |      |
| 5772                  | 90              | 12           | DI26 off           |      |
| 5773                  | 90              | 13           | DI27 on            |      |
| 5774                  | 90              | 14           | DI27 off           |      |
| 5775                  | 90              | 15           | DI28 on            |      |
| 5776                  | 90              | 16           | DI28 off           |      |
| 5777                  | 90              | 17           | DI29 on            |      |
| 5778                  | 90              | 18           | DI29 off           |      |
| 5779                  | 90              | 19           | DI30 on            |      |
| 5780                  | 90              | 2            | DI30 off           |      |
| 5781                  | 90              | 21           | DI31 on            |      |
| 5782                  | 90              | 22           | DI31 off           |      |
| 5783                  | 90              | 23           | DI32 on            |      |
| 5784                  | 90              | 24           | DI32 off           |      |
| 5825                  | 91              | 1            | I'> start on       |      |
| 5826                  | 91              | 2            | I'> trip on        |      |
| 5827                  | 91              | 3            | I'> start off      |      |
| 5828                  | 91              | 4            | I'> trip off       |      |
| 5889                  | 92              | 1            | I'>> start on      |      |
| 5890                  | 92              | 2            | I'>> trip on       |      |
| 5891                  | 92              | 3            | I'>> start off     |      |
| 5892                  | 92              | 4            | I'>> trip off      |      |
| 5954                  | 93              | 2            | CT' supervisor on  |      |
| 5956                  | 93              | 4            | CT' supervisor off |      |
| 6145                  | 96              | 1            | Uc> start on       |      |
| 6146                  | 96              | 2            | Uc> trip on        |      |
| 6147                  | 96              | 3            | Uc> start off      |      |
| 6148                  | 96              | 4            | Uc> trip off       |      |
| 6209                  | 97              | 1            | Z1< start on       |      |
| 6210                  | 97              | 2            | Z1< trip on        |      |
| 6211                  | 97              | 3            | Z1< start off      |      |
| 6212                  | 97              | 4            | Z1< trip off       |      |
| 6273                  | 98              | 1            | Z2< start on       |      |
| 6274                  | 98              | 2            | Z2< trip on        |      |
| 6275                  | 98              | 3            | Z2< start off      |      |
| 6276                  | 98              | 4            | Z2< trip off       |      |
| 6337                  | 99              | 1            | Z3< start on       |      |
| 6338                  | 99              | 2            | Z3< trip on        |      |
| 6339                  | 99              | 3            | Z3< start off      |      |

| <b>Profibus,<br/>Modbus<br/>Code</b> | <b>SPA bus<br/>Channel</b> | <b>SPA bus<br/>Code</b> | <b>Event Name</b>                | <b>Note</b> |
|--------------------------------------|----------------------------|-------------------------|----------------------------------|-------------|
| 6340                                 | 99                         | 4                       | Z3< trip off                     |             |
| 6401                                 | 100                        | 1                       | Z4< start on                     |             |
| 6402                                 | 100                        | 2                       | Z4< trip on                      |             |
| 6403                                 | 100                        | 3                       | Z4< start off                    |             |
| 6404                                 | 100                        | 4                       | Z4< trip off                     |             |
| 6465                                 | 101                        | 1                       | Z5< start on                     |             |
| 6466                                 | 101                        | 2                       | Z5< trip on                      |             |
| 6467                                 | 101                        | 3                       | Z5< start off                    |             |
| 6468                                 | 101                        | 4                       | Z5< trip off                     |             |
| 6529                                 | 102                        | 1                       | Z1e< start on                    |             |
| 6530                                 | 102                        | 2                       | Z1e< trip on                     |             |
| 6531                                 | 102                        | 3                       | Z1e< start off                   |             |
| 6532                                 | 102                        | 4                       | Z1e< trip off                    |             |
| 6593                                 | 103                        | 1                       | Z2e< start on                    |             |
| 6594                                 | 103                        | 2                       | Z2e< trip on                     |             |
| 6595                                 | 103                        | 3                       | Z2e< start off                   |             |
| 6596                                 | 103                        | 4                       | Z2e< trip off                    |             |
| 6657                                 | 104                        | 1                       | Z3e< start on                    |             |
| 6658                                 | 104                        | 2                       | Z3e< trip on                     |             |
| 6659                                 | 104                        | 3                       | Z3e< start off                   |             |
| 6660                                 | 104                        | 4                       | Z3e< trip off                    |             |
| 6721                                 | 105                        | 1                       | Z4e< start on                    |             |
| 6722                                 | 105                        | 2                       | Z4e< trip on                     |             |
| 6723                                 | 105                        | 3                       | Z4e< start off                   |             |
| 6724                                 | 105                        | 4                       | Z4e< trip off                    |             |
| 6785                                 | 106                        | 1                       | Z5e< start on                    |             |
| 6786                                 | 106                        | 2                       | Z5e< trip on                     |             |
| 6787                                 | 106                        | 3                       | Z5e< start off                   |             |
| 6788                                 | 106                        | 4                       | Z5e< trip off                    |             |
| 6849                                 | 107                        | 1                       | l0Int> start on                  |             |
| 6850                                 | 107                        | 2                       | l0Int> trip on                   |             |
| 6851                                 | 107                        | 3                       | l0Int> start off                 |             |
| 6852                                 | 107                        | 4                       | l0Int> trip off                  |             |
| 6913                                 | 108                        | 1                       | Ldl>>> Start On                  |             |
| 6914                                 | 108                        | 2                       | Ldl>>> Trip On                   |             |
| 6915                                 | 108                        | 3                       | Ldl>>> Start Off                 |             |
| 6916                                 | 108                        | 4                       | Ldl>>> Trip Off                  |             |
| 6917                                 | 108                        | 5                       | Ldl>>> Communication<br>Error On |             |
| 6918                                 | 108                        | 6                       | Ldl>>> Communication             |             |

| Profibus, Modbus Code | SPA bus Channel | SPA bus Code | Event Name | Note |
|-----------------------|-----------------|--------------|------------|------|
|-----------------------|-----------------|--------------|------------|------|

|      |     |    |                                |  |
|------|-----|----|--------------------------------|--|
|      |     |    | Error Off                      |  |
| 6919 | 108 | 7  | Ldl>>> Remote Trip On          |  |
| 6920 | 108 | 8  | Ldl>>> Remote Trip Off         |  |
| 6977 | 109 | 1  | POC1 on                        |  |
| 6978 | 109 | 2  | POC1 off                       |  |
| 6979 | 109 | 3  | POC2 on                        |  |
| 6980 | 109 | 4  | POC2 off                       |  |
| 6981 | 109 | 5  | POC3 on                        |  |
| 6982 | 109 | 6  | POC3 off                       |  |
| 6983 | 109 | 7  | POC4 on                        |  |
| 6984 | 109 | 8  | POC4 off                       |  |
| 6985 | 109 | 9  | POC5 on                        |  |
| 6986 | 109 | 1  | POC5 off                       |  |
| 6987 | 109 | 11 | POC6 on                        |  |
| 6988 | 109 | 12 | POC6 off                       |  |
| 6989 | 109 | 13 | POC7 on                        |  |
| 6990 | 109 | 14 | POC7 off                       |  |
| 6991 | 109 | 15 | POC8 on                        |  |
| 6992 | 109 | 16 | POC8 off                       |  |
| 6993 | 109 | 17 | POC9 on                        |  |
| 6994 | 109 | 18 | POC9 off                       |  |
| 6995 | 109 | 19 | POC10 on                       |  |
| 6996 | 109 | 2  | POC10 off                      |  |
| 6997 | 109 | 21 | POC11 on                       |  |
| 6998 | 109 | 22 | POC11 off                      |  |
| 6999 | 109 | 23 | POC12 on                       |  |
| 7000 | 109 | 24 | POC12 off                      |  |
| 7001 | 109 | 25 | POC13 on                       |  |
| 7002 | 109 | 26 | POC13 off                      |  |
| 7003 | 109 | 27 | POC14 on                       |  |
| 7004 | 109 | 28 | POC14 off                      |  |
| 7005 | 109 | 29 | POC15 on                       |  |
| 7006 | 109 | 3  | POC15 off                      |  |
| 7007 | 109 | 31 | POC16 on                       |  |
| 7008 | 109 | 32 | POC16 off                      |  |
| 7009 | 109 | 33 | ANSI85 Communication Error On  |  |
| 7010 | 109 | 34 | ANSI85 Communication Error Off |  |
| 7041 | 110 | 1  | Power swing On                 |  |

| Profibus, Modbus Code | SPA bus Channel | SPA bus Code | Event Name | Note |
|-----------------------|-----------------|--------------|------------|------|
|-----------------------|-----------------|--------------|------------|------|

|      |     |   |                             |  |
|------|-----|---|-----------------------------|--|
| 7042 | 110 | 2 | Power swing Off             |  |
| 7043 | 110 | 3 | Out of step On              |  |
| 7044 | 110 | 4 | Out of step Off             |  |
| 7045 | 110 | 5 | Synchronous power swing On  |  |
| 7046 | 110 | 6 | Synchronous power swing Off |  |
| 7105 | 111 | 1 | IoRMS start on              |  |
| 7106 | 111 | 2 | IoRMS alarm on              |  |
| 7107 | 111 | 3 | IoRMS start off             |  |
| 7108 | 111 | 4 | IoRMS alarm off             |  |
| 7169 | 112 | 1 | U>>>> start on              |  |
| 7170 | 112 | 2 | U>>>> trip on               |  |
| 7171 | 112 | 3 | U>>>> start off             |  |
| 7172 | 112 | 4 | U>>>> trip off              |  |
| 7233 | 113 | 1 | U>>>>> start on             |  |
| 7234 | 113 | 2 | U>>>>> trip on              |  |
| 7235 | 113 | 3 | U>>>>> start off            |  |
| 7236 | 113 | 4 | U>>>>> trip off             |  |
| 7297 | 114 | 1 | U<<<< start on              |  |
| 7298 | 114 | 2 | U<<<< trip on               |  |
| 7299 | 114 | 3 | U<<<< start off             |  |
| 7300 | 114 | 4 | U<<<< trip off              |  |
| 7361 | 115 | 1 | U<<<<< start on             |  |
| 7362 | 115 | 2 | U<<<<< trip on              |  |
| 7363 | 115 | 3 | U<<<<< start off            |  |
| 7364 | 115 | 4 | U<<<<< trip off             |  |
| 7425 | 116 | 1 | Uo>>> start on              |  |
| 7426 | 116 | 2 | Uo>>> trip on               |  |
| 7427 | 116 | 3 | Uo>>> start off             |  |
| 7428 | 116 | 4 | Uo>>> trip off              |  |
| 7489 | 117 | 1 | f>>> start on               |  |
| 7490 | 117 | 2 | f>>> trip on                |  |
| 7491 | 117 | 3 | f>>> start off              |  |
| 7492 | 117 | 4 | f>>> trip off               |  |
| 7553 | 118 | 1 | f<<< start on               |  |
| 7554 | 118 | 2 | f<<< trip on                |  |
| 7555 | 118 | 3 | f<<< start off              |  |
| 7556 | 118 | 4 | f<<< trip off               |  |
| 7617 | 119 | 1 | U1<<< start on              |  |

| <b>Profibus,<br/>Modbus<br/>Code</b> | <b>SPA bus<br/>Channel</b> | <b>SPA bus<br/>Code</b> | <b>Event Name</b>  | <b>Note</b> |
|--------------------------------------|----------------------------|-------------------------|--------------------|-------------|
| 7618                                 | 119                        | 2                       | U1<<< trip on      |             |
| 7619                                 | 119                        | 3                       | U1<<< start off    |             |
| 7620                                 | 119                        | 4                       | U1<<< trip off     |             |
| 7681                                 | 120                        | 1                       | Uf>> start on      |             |
| 7682                                 | 120                        | 2                       | Uf>> trip on       |             |
| 7683                                 | 120                        | 3                       | Uf>> start off     |             |
| 7684                                 | 120                        | 4                       | Uf>> trip off      |             |
| 7745                                 | 121                        | 1                       | U2> start on       |             |
| 7746                                 | 121                        | 2                       | U2> trip on        |             |
| 7747                                 | 121                        | 3                       | U2> start off      |             |
| 7748                                 | 121                        | 4                       | U2> trip off       |             |
| 7809                                 | 122                        | 1                       | U2>> start on      |             |
| 7810                                 | 122                        | 2                       | U2>> trip on       |             |
| 7811                                 | 122                        | 3                       | U2>> start off     |             |
| 7812                                 | 122                        | 4                       | U2>> trip off      |             |
| 7873                                 | 123                        | 1                       | U2>>> start on     |             |
| 7874                                 | 123                        | 2                       | U2>>> trip on      |             |
| 7875                                 | 123                        | 3                       | U2>>> start off    |             |
| 7876                                 | 123                        | 4                       | U2>>> trip off     |             |
| 7937                                 | 124                        | 1                       | Card uninitialized |             |
| 7938                                 | 124                        | 2                       | Card added         |             |
| 7939                                 | 124                        | 3                       | Card replaced      |             |
| 7940                                 | 124                        | 4                       | Card unstable      |             |
| 7941                                 | 124                        | 5                       | Card lost          |             |
| 7942                                 | 124                        | 6                       | Card found RT      |             |
| 7943                                 | 124                        | 7                       | Card disabled      |             |
| 7944                                 | 124                        | 8                       | Card error         |             |
| 8001                                 | 125                        | 1                       | Arc stage 1 on     |             |
| 8002                                 | 125                        | 2                       | Arc stage 1 off    |             |
| 8065                                 | 126                        | 1                       | Arc stage 2 on     |             |
| 8066                                 | 126                        | 2                       | Arc stage 2 off    |             |
| 8129                                 | 127                        | 1                       | Arc stage 3 on     |             |
| 8130                                 | 127                        | 2                       | Arc stage 3 off    |             |
| 8193                                 | 128                        | 1                       | Arc stage 4 on     |             |
| 8194                                 | 128                        | 2                       | Arc stage 4 off    |             |
| 8257                                 | 129                        | 1                       | Arc stage 5 on     |             |
| 8258                                 | 129                        | 2                       | Arc stage 5 off    |             |
| 8321                                 | 130                        | 1                       | Arc stage 6 on     |             |
| 8322                                 | 130                        | 2                       | Arc stage 6 off    |             |
| 8385                                 | 131                        | 1                       | Arc stage 7 on     |             |



| <b>Profibus,<br/>Modbus<br/>Code</b> | <b>SPA bus<br/>Channel</b> | <b>SPA bus<br/>Code</b> | <b>Event Name</b> | <b>Note</b> |
|--------------------------------------|----------------------------|-------------------------|-------------------|-------------|
| 8386                                 | 131                        | 2                       | Arc stage 7 off   |             |
| 8449                                 | 132                        | 1                       | Arc stage 8 on    |             |
| 8450                                 | 132                        | 2                       | Arc stage 8 off   |             |
| 8513                                 | 133                        | 1                       | Arc sensor 1 on   |             |
| 8523                                 | 133                        | 11                      | Arc sensor 1 off  |             |
| 8514                                 | 133                        | 2                       | Arc sensor 2 on   |             |
| 8524                                 | 133                        | 12                      | Arc sensor 2 off  |             |
| 8515                                 | 133                        | 3                       | Arc sensor 3 on   |             |
| 8525                                 | 133                        | 13                      | Arc sensor 3 off  |             |
| 8516                                 | 133                        | 4                       | Arc sensor 4 on   |             |
| 8526                                 | 133                        | 14                      | Arc sensor 4 off  |             |
| 8517                                 | 133                        | 5                       | Arc sensor 5 on   |             |
| 8527                                 | 133                        | 15                      | Arc sensor 5 off  |             |
| 8518                                 | 133                        | 6                       | Arc sensor 6 on   |             |
| 8528                                 | 133                        | 16                      | Arc sensor 6 off  |             |
| 8519                                 | 133                        | 7                       | Arc sensor 7 on   |             |
| 8529                                 | 133                        | 17                      | Arc sensor 7 off  |             |
| 8520                                 | 133                        | 8                       | Arc sensor 8 on   |             |
| 8530                                 | 133                        | 18                      | Arc sensor 8 off  |             |
| 8521                                 | 133                        | 9                       | Arc sensor 9 on   |             |
| 8531                                 | 133                        | 19                      | Arc sensor 9 off  |             |
| 8522                                 | 133                        | 1                       | Arc sensor 10 on  |             |
| 8532                                 | 133                        | 2                       | Arc sensor 10 off |             |
| 8533                                 | 133                        | 21                      | Zone 1 on         |             |
| 8538                                 | 133                        | 26                      | Zone 1 off        |             |
| 8534                                 | 133                        | 22                      | Zone 2 on         |             |
| 8539                                 | 133                        | 27                      | Zone 2 off        |             |
| 8535                                 | 133                        | 23                      | Zone 3 on         |             |
| 8540                                 | 133                        | 28                      | Zone 3 off        |             |
| 8536                                 | 133                        | 24                      | Zone 4 on         |             |
| 8541                                 | 133                        | 29                      | Zone 4 off        |             |
| 8537                                 | 133                        | 25                      | l>ext. on         |             |
| 8542                                 | 133                        | 3                       | l>ext. off        |             |
| 8543                                 | 133                        | 31                      | l>int. on         |             |
| 8545                                 | 133                        | 33                      | l>int. off        |             |
| 8544                                 | 133                        | 32                      | lo>int. on        |             |
| 8546                                 | 133                        | 34                      | lo>int. off       |             |
| 8547                                 | 133                        | 35                      | BI1 on            |             |
| 8548                                 | 133                        | 36                      | BI2 on            |             |
| 8549                                 | 133                        | 37                      | BI3 on            |             |

| <b>Profibus, Modbus Code</b> | <b>SPA bus Channel</b> | <b>SPA bus Code</b> | <b>Event Name</b> | <b>Note</b> |
|------------------------------|------------------------|---------------------|-------------------|-------------|
|------------------------------|------------------------|---------------------|-------------------|-------------|

|      |     |    |                                 |  |
|------|-----|----|---------------------------------|--|
| 8550 | 133 | 38 | BI1 off                         |  |
| 8551 | 133 | 39 | BI2 off                         |  |
| 8552 | 133 | 4  | BI3 off                         |  |
| 8577 | 134 | 1  | Arc sensor 1 not conn. error    |  |
| 8587 | 134 | 11 | Arc sensor 1 not conn. err off  |  |
| 8578 | 134 | 2  | Arc sensor 2 not conn. error    |  |
| 8588 | 134 | 12 | Arc sensor 2 not conn. err off  |  |
| 8579 | 134 | 3  | Arc sensor 3 not conn. error    |  |
| 8589 | 134 | 13 | Arc sensor 3 not conn. err off  |  |
| 8580 | 134 | 4  | Arc sensor 4 not conn. error    |  |
| 8590 | 134 | 14 | Arc sensor 4 not conn. err off  |  |
| 8581 | 134 | 5  | Arc sensor 5 not conn. error    |  |
| 8591 | 134 | 15 | Arc sensor 5 not conn. err off  |  |
| 8582 | 134 | 6  | Arc sensor 6 not conn. error    |  |
| 8592 | 134 | 16 | Arc sensor 6 not conn. err off  |  |
| 8583 | 134 | 7  | Arc sensor 7 not conn. error    |  |
| 8593 | 134 | 17 | Arc sensor 7 not conn. err off  |  |
| 8584 | 134 | 8  | Arc sensor 8 not conn. error    |  |
| 8594 | 134 | 18 | Arc sensor 8 not conn. err off  |  |
| 8585 | 134 | 9  | Arc sensor 9 not conn. error    |  |
| 8595 | 134 | 19 | Arc sensor 9 not conn. err off  |  |
| 8586 | 134 | 1  | Arc sensor 10 not conn. error   |  |
| 8596 | 134 | 2  | Arc sensor 10 not conn. err off |  |

| <b>Profibus,<br/>Modbus<br/>Code</b> | <b>SPA bus<br/>Channel</b> | <b>SPA bus<br/>Code</b> | <b>Event Name</b> | <b>Note</b> |
|--------------------------------------|----------------------------|-------------------------|-------------------|-------------|
|--------------------------------------|----------------------------|-------------------------|-------------------|-------------|

|      |     |    |                                   |  |
|------|-----|----|-----------------------------------|--|
| 8597 | 134 | 21 | Arc sensor 1 short circuit error  |  |
| 8607 | 134 | 31 | Arc sensor 1 short circ. err off  |  |
| 8598 | 134 | 22 | Arc sensor 2 short circuit error  |  |
| 8608 | 134 | 32 | Arc sensor 2 short circ. err off  |  |
| 8599 | 134 | 23 | Arc sensor 3 short circuit error  |  |
| 8609 | 134 | 33 | Arc sensor 3 short circ. err off  |  |
| 8600 | 134 | 24 | Arc sensor 4 short circuit error  |  |
| 8610 | 134 | 34 | Arc sensor 4 short circ. err off  |  |
| 8601 | 134 | 25 | Arc sensor 5 short circuit error  |  |
| 8611 | 134 | 35 | Arc sensor 5 short circ. err off  |  |
| 8602 | 134 | 26 | Arc sensor 6 short circuit error  |  |
| 8612 | 134 | 36 | Arc sensor 6 short circ. err off  |  |
| 8603 | 134 | 27 | Arc sensor 7 short circuit error  |  |
| 8613 | 134 | 37 | Arc sensor 7 short circ. err off  |  |
| 8604 | 134 | 28 | Arc sensor 8 short circuit error  |  |
| 8614 | 134 | 38 | Arc sensor 8 short circ. err off  |  |
| 8605 | 134 | 29 | Arc sensor 9 short circuit error  |  |
| 8615 | 134 | 39 | Arc sensor 9 short circ. err off  |  |
| 8606 | 134 | 3  | Arc sensor 10 short circuit error |  |
| 8616 | 134 | 4  | Arc sensor 10 short circ. err off |  |
| 8617 | 134 | 41 | Arc sensor 1 daylight error       |  |
| 8627 | 134 | 51 | Arc sensor 1 daylight error off   |  |
| 8618 | 134 | 42 | Arc sensor 2 daylight error       |  |
| 8628 | 134 | 52 | Arc sensor 2 daylight error       |  |

| Profibus, Modbus Code | SPA bus Channel | SPA bus Code | Event Name | Note |
|-----------------------|-----------------|--------------|------------|------|
|-----------------------|-----------------|--------------|------------|------|

|      |     |    |                                  |  |
|------|-----|----|----------------------------------|--|
|      |     |    | off                              |  |
| 8619 | 134 | 43 | Arc sensor 3 daylight error      |  |
| 8629 | 134 | 53 | Arc sensor 3 daylight error off  |  |
| 8620 | 134 | 44 | Arc sensor 4 daylight error      |  |
| 8630 | 134 | 54 | Arc sensor 4 daylight error off  |  |
| 8621 | 134 | 45 | Arc sensor 5 daylight error      |  |
| 8631 | 134 | 55 | Arc sensor 5 daylight error off  |  |
| 8622 | 134 | 46 | Arc sensor 6 daylight error      |  |
| 8632 | 134 | 56 | Arc sensor 6 daylight error off  |  |
| 8623 | 134 | 47 | Arc sensor 7 daylight error      |  |
| 8633 | 134 | 57 | Arc sensor 7 daylight error off  |  |
| 8624 | 134 | 48 | Arc sensor 8 daylight error      |  |
| 8634 | 134 | 58 | Arc sensor 8 daylight error off  |  |
| 8625 | 134 | 49 | Arc sensor 9 daylight error      |  |
| 8635 | 134 | 59 | Arc sensor 9 daylight error off  |  |
| 8626 | 134 | 5  | Arc sensor 10 daylight error     |  |
| 8636 | 134 | 6  | Arc sensor 10 daylight error off |  |
| 8641 | 135 | 1  | I/O unit sensor error on         |  |
| 8642 | 135 | 2  | I/O unit sensor error off        |  |
| 8643 | 135 | 3  | I/O unit Arcl/O error on         |  |
| 8644 | 135 | 4  | I/O unit Arcl/O error off        |  |
| 8645 | 135 | 5  | I/O unit arc sensor on           |  |
| 8646 | 135 | 6  | I/O unit arc sensor off          |  |
| 8647 | 135 | 7  | I/O unit current sensor on       |  |
| 8648 | 135 | 8  | I/O unit current sensor off      |  |
| 8649 | 135 | 9  | I/O unit Arcl/O error on         |  |
| 8650 | 135 | 1  | I/O unit Arcl/O error off        |  |
| 8705 | 136 | 1  | Ldl> Start On                    |  |
| 8706 | 136 | 2  | Ldl> Trip On                     |  |
| 8707 | 136 | 3  | Ldl> Start Off                   |  |
| 8708 | 136 | 4  | Ldl> Trip Off                    |  |
| 8709 | 136 | 5  | Ldl> Remote Trip On              |  |
| 8710 | 136 | 6  | Ldl> Remote Trip Off             |  |

| Profibus, Modbus Code | SPA bus Channel | SPA bus Code | Event Name | Note |
|-----------------------|-----------------|--------------|------------|------|
|-----------------------|-----------------|--------------|------------|------|

|      |     |    |                          |  |
|------|-----|----|--------------------------|--|
| 8711 | 136 | 7  | Ldl> Symp Trip On        |  |
| 8712 | 136 | 8  | Ldl> Symp Trip Off       |  |
| 8769 | 137 | 1  | Ldl>> Start On           |  |
| 8770 | 137 | 2  | Ldl>> Trip On            |  |
| 8771 | 137 | 3  | Ldl>> Start Off          |  |
| 8772 | 137 | 4  | Ldl>> Trip Off           |  |
| 8773 | 137 | 5  | Ldl>> Symp Trip On       |  |
| 8774 | 137 | 6  | Ldl>> Symp Trip Off      |  |
| 8833 | 138 | 1  | 5. Harm Start On         |  |
| 8834 | 138 | 2  | 5. Harm Trip On          |  |
| 8835 | 138 | 3  | 5. Harm Start Off        |  |
| 8836 | 138 | 4  | 5. Harm Trip Off         |  |
| 8897 | 139 | 1  | Ethernet Port1 Link Up   |  |
| 8898 | 139 | 2  | Ethernet Port1 Link Down |  |
| 8899 | 139 | 3  | Ethernet Port2 Link Up   |  |
| 8900 | 139 | 4  | Ethernet Port2 Link Down |  |
| 9217 | 144 | 1  | NI1 Change               |  |
| 9218 | 144 | 2  | NI2 Change               |  |
| 9219 | 144 | 3  | NI3 Change               |  |
| 9220 | 144 | 4  | NI4 Change               |  |
| 9221 | 144 | 5  | NI5 Change               |  |
| 9222 | 144 | 6  | NI6 Change               |  |
| 9223 | 144 | 7  | NI7 Change               |  |
| 9224 | 144 | 8  | NI8 Change               |  |
| 9225 | 144 | 9  | NI9 Change               |  |
| 9226 | 144 | 1  | NI10 Change              |  |
| 9227 | 144 | 11 | NI11 Change              |  |
| 9228 | 144 | 12 | NI12 Change              |  |
| 9229 | 144 | 13 | NI13 Change              |  |
| 9230 | 144 | 14 | NI14 Change              |  |
| 9231 | 144 | 15 | NI15 Change              |  |
| 9232 | 144 | 16 | NI16 Change              |  |
| 9233 | 144 | 17 | NI17 Change              |  |
| 9234 | 144 | 18 | NI18 Change              |  |
| 9235 | 144 | 19 | NI19 Change              |  |
| 9236 | 144 | 2  | NI20 Change              |  |
| 9237 | 144 | 21 | NI21 Change              |  |
| 9238 | 144 | 22 | NI22 Change              |  |
| 9239 | 144 | 23 | NI23 Change              |  |
| 9240 | 144 | 24 | NI24 Change              |  |

| <b>Profibus,<br/>Modbus<br/>Code</b> | <b>SPA bus<br/>Channel</b> | <b>SPA bus<br/>Code</b> | <b>Event Name</b> | <b>Note</b> |
|--------------------------------------|----------------------------|-------------------------|-------------------|-------------|
|--------------------------------------|----------------------------|-------------------------|-------------------|-------------|

|      |     |    |             |  |
|------|-----|----|-------------|--|
| 9241 | 144 | 25 | NI25 Change |  |
| 9242 | 144 | 26 | NI26 Change |  |
| 9243 | 144 | 27 | NI27 Change |  |
| 9244 | 144 | 28 | NI28 Change |  |
| 9245 | 144 | 29 | NI29 Change |  |
| 9246 | 144 | 3  | NI30 Change |  |
| 9247 | 144 | 31 | NI31 Change |  |
| 9248 | 144 | 32 | NI32 Change |  |
| 9281 | 145 | 1  | NI33 Change |  |
| 9282 | 145 | 2  | NI34 Change |  |
| 9283 | 145 | 3  | NI35 Change |  |
| 9284 | 145 | 4  | NI36 Change |  |
| 9285 | 145 | 5  | NI37 Change |  |
| 9286 | 145 | 6  | NI38 Change |  |
| 9287 | 145 | 7  | NI39 Change |  |
| 9288 | 145 | 8  | NI40 Change |  |
| 9289 | 145 | 9  | NI41 Change |  |
| 9290 | 145 | 1  | NI42 Change |  |
| 9291 | 145 | 11 | NI43 Change |  |
| 9292 | 145 | 12 | NI44 Change |  |
| 9293 | 145 | 13 | NI45 Change |  |
| 9294 | 145 | 14 | NI46 Change |  |
| 9295 | 145 | 15 | NI47 Change |  |
| 9296 | 145 | 16 | NI48 Change |  |
| 9297 | 145 | 17 | NI49 Change |  |
| 9298 | 145 | 18 | NI50 Change |  |
| 9299 | 145 | 19 | NI51 Change |  |
| 9300 | 145 | 2  | NI52 Change |  |
| 9301 | 145 | 21 | NI53 Change |  |
| 9302 | 145 | 22 | NI54 Change |  |
| 9303 | 145 | 23 | NI55 Change |  |
| 9304 | 145 | 24 | NI56 Change |  |
| 9305 | 145 | 25 | NI57 Change |  |
| 9306 | 145 | 26 | NI58 Change |  |
| 9307 | 145 | 27 | NI59 Change |  |
| 9308 | 145 | 28 | NI60 Change |  |
| 9309 | 145 | 29 | NI61 Change |  |
| 9310 | 145 | 3  | NI62 Change |  |
| 9311 | 145 | 31 | NI63 Change |  |
| 9312 | 145 | 32 | NI64 Change |  |

| <b>Profibus,<br/>Modbus<br/>Code</b> | <b>SPA bus<br/>Channel</b> | <b>SPA bus<br/>Code</b> | <b>Event Name</b> | <b>Note</b> |
|--------------------------------------|----------------------------|-------------------------|-------------------|-------------|
|--------------------------------------|----------------------------|-------------------------|-------------------|-------------|

|      |     |    |                                 |  |
|------|-----|----|---------------------------------|--|
| 9345 | 146 | 1  | GOOSE NI Group 1 OK             |  |
| 9346 | 146 | 2  | GOOSE NI Group 1 Error          |  |
| 9347 | 146 | 3  | GOOSE NI Group 2 OK             |  |
| 9348 | 146 | 4  | GOOSE NI Group 2 Error          |  |
| 9349 | 146 | 5  | GOOSE NI Group 3 OK             |  |
| 9350 | 146 | 6  | GOOSE NI Group 3 Error          |  |
| 9351 | 146 | 7  | GOOSE NI Group 4 OK             |  |
| 9352 | 146 | 8  | GOOSE NI Group 4 Error          |  |
| 9353 | 146 | 9  | GOOSE NI Group 5 OK             |  |
| 9354 | 146 | 1  | GOOSE NI Group 5 Error          |  |
| 9355 | 146 | 11 | GOOSE NI Group 6 OK             |  |
| 9356 | 146 | 12 | GOOSE NI Group 6 Error          |  |
| 9357 | 146 | 13 | GOOSE NI Group 7 OK             |  |
| 9358 | 146 | 14 | GOOSE NI Group 7 Error          |  |
| 9359 | 146 | 15 | GOOSE NI Group 8 OK             |  |
| 9360 | 146 | 16 | GOOSE NI Group 8 Error          |  |
| 9361 | 146 | 17 | GOOSE NI Group 9 OK             |  |
| 9362 | 146 | 18 | GOOSE NI Group 9 Error          |  |
| 9363 | 146 | 19 | GOOSE NI Group 10 OK            |  |
| 9364 | 146 | 2  | GOOSE NI Group 10 Error         |  |
| 9365 | 146 | 21 | GOOSE NI Group 11 OK            |  |
| 9366 | 146 | 22 | GOOSE NI Group 11 Error         |  |
| 9367 | 146 | 23 | GOOSE NI Group 12 OK            |  |
| 9368 | 146 | 24 | GOOSE NI Group 12 Error         |  |
| 9369 | 146 | 25 | GOOSE NI Group 13 OK            |  |
| 9370 | 146 | 26 | GOOSE NI Group 13 Error         |  |
| 9371 | 146 | 27 | GOOSE NI Group 14 OK            |  |
| 9372 | 146 | 28 | GOOSE NI Group 14 Error         |  |
| 9373 | 146 | 29 | GOOSE NI Group 15 OK            |  |
| 9374 | 146 | 3  | GOOSE NI Group 15 Error         |  |
| 9375 | 146 | 31 | GOOSE NI Group 16 OK            |  |
| 9376 | 146 | 32 | GOOSE NI Group 16 Error         |  |
| 9377 | 146 | 33 | GCB1 Test On                    |  |
| 9378 | 146 | 34 | GCB1 Test Off                   |  |
| 9379 | 146 | 35 | GCB2 Test On                    |  |
| 9380 | 146 | 36 | GCB2 Test Off                   |  |
| 9381 | 146 | 37 | GCB1 Needs<br>commissioning On  |  |
| 9382 | 146 | 38 | GCB1 Needs<br>commissioning Off |  |

| <b>Profibus,<br/>Modbus<br/>Code</b> | <b>SPA bus<br/>Channel</b> | <b>SPA bus<br/>Code</b> | <b>Event Name</b>               | <b>Note</b> |
|--------------------------------------|----------------------------|-------------------------|---------------------------------|-------------|
| 9383                                 | 146                        | 39                      | GCB2 Needs<br>commissioning On  |             |
| 9384                                 | 146                        | 4                       | GCB2 Needs<br>commissioning Off |             |

This table was generated from firmware version 10.108. New firmware versions might bring additions to this list.