

| Event Code | Event Name | Description | Sub-events | Group of Events | | | | | | | | | | | | Group of Devices | | | | Parameteters (EndDeviceEventsDetails) (Note: more that Event Code and Clock) | | Mandatory/Optiona l | Alarm | |
|------------|--|---|------------|--------------------|----------------------------|-------------------------|-----------------|-------------------------|-------------------|-------------------------|---------------------|---------------------|---------------------|---------------------|----------|------------------------------|---------------|------------------|------|---|--------------------|------------------------|---------|--|
| | | | | Standard Event Log | Fraud (Security) Event Log | Disconnect or Event Log | M-bus Event Log | Power Quality Event Log | Communication Log | Power Failure Event Log | M-Bus control Log 1 | M-Bus control Log 2 | M-Bus control Log 3 | M-Bus control Log 4 | 1P Meter | 3P Meter (Direct Connection) | 3P Meter (CT) | 3P Meter (CT/PT) | Name | Value | Alarm Register No. | | Bit No. | |
| 1 | Power Down | Indicates a complete power down of the device. Please note that this is related to the device and not necessarily to the network. | NA | X | | | | | | | | | | X | X | X | X | | | M | 2 | 0 | | |
| 2 | Power Up | Indicates that the device is powered again after a complete power down. | NA | X | | | | | | | | | | X | X | X | X | | | M | 2 | 1 | | |
| 3 | Daylight Saving Time Activated Regularly | Indicates the regular change from and to daylight saving time. The time stamp shows the time before the change. This event is not set in case of manual clock changes and in case of power failures. | NA | X | | | | | | | | | | X | X | X | X | | | M | | | | |
| 4 | Clock Adjust (old time /date) | Indicates that the clock has been adjusted. The date/time that is stored in the event log is the old date/time before adjusting the clock. If during time synchronization, the difference between new time and old time of meter is greater than a predefined value (Clock Time Shift Limit), this event should be generated (details in section 13.1 of FID2) | NA | X | | | | | | | | | | X | X | X | X | | | M | | | | |
| 5 | Clock Adjust (new time /date) | Indicates that the clock has been adjusted. The date/time that is stored in the event log is the new date/time after adjusting the clock. If during time synchronization, the difference between new time and old time of meter is greater than a predefined value (Clock Time Shift Limit), this event should be generated (details in section 13.1 of FID2) | NA | X | | | | | | | | | | X | X | X | X | | | M | | | | |
| 6 | Clock Invalid | Indicates that clock may be invalid, i.e. if the power reserve of the clock has exhausted. It is set at power up. | NA | X | | | | | | | | | | X | X | X | X | | | M | 1 | 0 | | |
| 7 | Replace Battery | Indicates that the battery must be exchanged due to the expected end of life time. | NA | X | | | | | | | | | | X | X | X | X | | | M | 1 | 1 | | |
| 8 | Battery voltage low | Indicates that the current battery voltage is low. | NA | X | | | | | | | | | | X | X | X | X | | | M | | | | |
| 9 | ToU activated | Indicates that the passive TOU has been activated. | NA | X | | | | | | | | | | X | X | X | X | | | M | | | | |
| 10 | Error Register Cleared | Indicates that the error register is cleared. | NA | X | | | | | | | | | | | | | | | | M | | | | |
| 11 | Alarm Register Cleared | Indicates that the alarm register is cleared. | NA | X | | | | | | | | | | | | | | | | M | | | | |
| 12 | Meter Program Memory Error | Indicates a physical or a logical error in the program memory. | NA | X | | | | | | | | | | X | X | X | X | | | M | 1 | 8 | | |

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| 13 | RAM Error | Indicates a physical or a logical error in the RAM. | NA | X | | | | | | | | | | X | X | X | X | | | M | 1 | 9 | | |
| 14 | NV Memory Error | Indicates a physical or a logical error in the non volatile memory | 1 - Source Metrology 2 - Source Application | X | | | | | | | | | | X | X | X | X | | | M | 1 | 10 | | |
| 15 | Watchdog Error | Indicates a watch dog reset or a hardware reset of the microcontroller. | NA | X | | | | | | | | | | X | X | X | X | | | M | 1 | 12 | | |
| 16 | Measurement System Error | Indicates a logical or physical error in the measurement system | NA | X | | | | | | | | | | X | X | X | X | | | M | 1 | 11 | | |
| 17 | Firmware ready for activation | Indicates that the new firmware has been successfully downloaded and verified and is ready for activation | NA | X | | | | | | | | | | X | X | X | X | | | M | | | | |
| 18 | Firmware activated | Indicates that a new firmware has been activated | NA | X | | | | | | | | | | X | X | X | X | | | M | | | | |
| 19 | Passive ToU programmed | The passive structures of ToU or a new activation date/time were prograded | 1 – Calendar name 2 – Calendar season table 3 – Calendar week table 4 – Calendar day table | X | | | | | | | | | | X | X | X | X | | | M | | | | |
| 20 | External alert detected | Indicates signal detected on the meter's input terminal | NA | X | | | | | | | | | | X | X | X | X | | | O | 2 | 17 | | |
| 21 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | Terminal Cover opened | Indicates that the terminal cover has been removed. | NA | | X | | | | | | | | | X | X | X | X | | | M | 1 | 13 | | |
| 41 | Terminal Cover closed | Indicates that the terminal cover has been closed. | NA | | X | | | | | | | | | X | X | X | X | | | M | | | | |
| 42 | Strong DC field detected | Indicates that a strong magnetic DC field has been detected. | NA | | X | | | | | | | | | X | X | X | X | | | M | 1 | 13 | | |
| 43 | Strong DC field removed | Indicates that the strong magnetic DC field has disappeared. | NA | | X | | | | | | | | | X | X | X | X | | | M | | | | |

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| 44 | Meter cover opened | Indicates that the meter cover has been removed. | NA | | X | | | | | | | | | X | X | X | X | | | M | 1 | 13 | | |
| 45 | Meter cover closed | Indicates that the meter cover has been closed. | NA | | X | | | | | | | | | X | X | X | X | | | M | | | | |
| 46 | Association authentication failure after n times | Indicates that a user tried to gain LLS access with wrong password (intrusion detection) or HLS access challenge processing failed n-times | NA | | X | | | | | | | | | X | X | X | X | | | M | 1 | 13 | | |
| 47 | Parameter (s) changed | Parameter (s) changed | 1 – Demand register 1,2,3,4,7 period 2 - Demand register 1,2,3,4,7 number of period 3 - Limiter Threshold Normal 4 - Limiter Threshold Emergency 5 – LP1 Capture Period 6 - LP2 Capture Period 7 - LP Average Capture Period 8 - LP Max Capture Period 9 - LP Min Capture Period 10 - LP Harmonics Capture Period 11 – Secret change 12 – Security policy changed (meter) 13 – Security policy changed (IHD) 14 – M_BUS security parameters changed 15 – Transformer ratio- current numerator changed 16 – Transformer ratio- voltage numerator changed 17 – Transformer ratio- current denominator changed 18 – Transformer ratio- voltage denominator changed 19- Limiter action activated (Attr. 11, IC 71, changed to any action) 20- Limiter action deactivated (Attr. 11, IC 71, changed to any action) 21- Minimum Time Under Threshold 22- Minimum Time Over Threshold 23- Time Threshold for Under Voltage Detection 24- Time Threshold for Over Voltage Detection 25- Threshold for Under Voltage Detection 26- Threshold for Over Voltage Detection 27- Time Threshold for Missing Voltage 28- Threshold for Missing Voltage 29- Time threshold for long power failure | X | | | | | | | | | | X | X | X | X | | | M | | | | |
| 48 | Security key (s) changed | One or more security keys (Global/Master) changed. | 1– Authentication Key for meter change 2 – Encryption Unicast key for meter change 3 – Encryption Broadcast key for meter change 4 – Authentication Key for IHD change 5 – Encryption Unicast key for IHD change 6 – Master Key Change 7- Authentication Key for Local Port 8- Encryption Unicast Key for Local Port | X | | | | | | | | | | X | X | X | X | | | M | 2 | 13 | | |
| 49 | Decryption or Message Authentication failure | Decryption with currently valid key (global or dedicated) failed to generate a valid APDU or authentication tag | | | X | | | | | | | | | X | X | X | X | | | M | 1 | 13 | | |

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| 50 | Replay attack | Receive frame counter value less or equal to the last successfully received frame counter in the received APDU. | NA | | X | | | | | | | | | | X | X | X | X | | | M | 1 | 13 | |
| 51 | Firmware verification failed | Indicates the transferred firmware verification failed i.e. cannot be activated. | NA | X | | | | | | | | | | | X | X | X | X | | | M | | | |
| 52 | Unexpected consumption | Indicates consumption is detected at least on one phase when the disconnector has been disconnected | | X | | | | | | | | | | | X | X | X | X | | | M | 2 | 12 | |
| 53 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 54 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 56 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 58 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 59 | Disconnector in "Ready for Reconnection" | Indicates that the disconnector has been indicates that the disconnector has been set into the Ready_for_reconnection state and can be manually reconnected | NA | | | X | | | | | | | | | | | | | | | M | | | |
| 60 | Manual Disconnection | Indicates that the disconnector has been manually disconnected. | NA | | | X | | | | | | | | | X | X | X | X | | | M | | | |
| 61 | Manual Connection | Indicates that the disconnector has been manually connected. | NA | | | X | | | | | | | | | X | X | X | X | | | M | | | |
| 62 | Remote Disconnection | Indicates that the disconnector has been remotely disconnected. | NA | | | X | | | | | | | | | X | X | X | X | | | M | | | |
| 63 | Remote Connection | Indicates that the disconnector has been remotely connected. | NA | | | X | | | | | | | | | X | X | X | X | | | M | | | |
| 64 | Local Disconnection | Indicates that the disconnector has been locally disconnected (via limiter). | NA | | | X | | | | | | | | | X | X | X | X | | | M | | | |
| 65 | Limiter threshold exceed | Indicates that the limiter threshold has been exceeded (both Normal and Emergency). | NA | | | X | | | | | | | | | X | X | X | X | Threshold Value | | M | | | |
| 66 | Limiter threshold OK | Indicates that the monitored value of the limiter dropped below the threshold (both Normal and Emergency). | NA | | | X | | | | | | | | | X | X | X | X | Threshold Value | | M | | | |
| 67 | Limiter threshold changed | Indicates that the limiter threshold has been changed (both Normal and Emergency). | NA | | | X | | | | | | | | | X | X | X | X | Threshould Value (new value) | | M | | | |
| 68 | Disconnect /Reconnect failure | Indicates that a failure of disconnection or reconnection has happened. | NA | | | X | | | | | | | | | X | X | X | X | | | O | 2 | 31 | |
| 69 | Local Reconnection | Indicates that the disconnector has been locally reconnected (via limiter). | NA | | | X | | | | | | | | | X | X | X | X | | | M | | | |
| 70 | Fuse supervision L1, threshold exceeded | Indicates that the threshold value in L1 has been exceeded. | NA | | | X | | | | | | | | | X | X | X | X | Threshold Value | | M | | | |
| 71 | Fuse supervision L1, threshold OK | Indicates that the monitored value dropped below the threshold. | NA | | | X | | | | | | | | | X | X | X | X | Threshold Value | | M | | | |

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| 72 | Fuse supervision L2, threshold exceeded | Indicates that the threshold value in L2 has been exceeded. | NA | | | X | | | | | | | | | | X | X | X | Threshold Value | | M | | |
| 73 | Fuse supervision L2, threshold OK | Indicates that the monitored value dropped below the threshold. | NA | | | X | | | | | | | | | | X | X | X | Threshold Value | | M | | |
| 74 | Fuse supervision L3, threshold exceeded | Indicates that the threshold value in L3 has been exceeded. | NA | | | X | | | | | | | | | | X | X | X | Threshold Value | | M | | |
| 75 | Fuse supervision L3, threshold OK | Indicates that the monitored value dropped below the threshold. | NA | | | X | | | | | | | | | | X | X | X | Threshold Value | | M | | |
| 76 | Undervoltage (voltage SAG) L1 | Indicates undervoltage on L1 phase was detected. | NA | | | | | X | | | | | | | X | X | X | X | | | M | | |
| 77 | Undervoltage (voltage SAG) L2 | Indicates undervoltage on L2 phase was detected. | NA | | | | | X | | | | | | | | X | X | X | | | M | | |
| 78 | Undervoltage (voltage SAG) L3 | Indicates undervoltage on L3 phase was detected. | NA | | | | | X | | | | | | | | X | X | X | | | M | | |
| 79 | Overvoltage (voltage SWELL) L1 | Indicates overvoltage on L1 phase was detected. | NA | | | | | X | | | | | | | X | X | X | X | | | M | | |
| 80 | Overvoltage (voltage SWELL) L2 | Indicates overvoltage on L2 phase was detected. | NA | | | | | X | | | | | | | | X | X | X | | | M | | |
| 81 | Overvoltage (voltage SWELL) L3 | Indicates overvoltage on L3 phase was detected. | NA | | | | | X | | | | | | | | X | X | X | | | M | | |
| 82 | Missing Voltage (Voltage Cut) L1 | Indicates that voltage on at least L1 phase has fallen below the Umin threshold for longer than the T time delay. | NA | | | | | X | | | | | | | X | X | X | X | | | M | 2 | 2 |
| 83 | Missing Voltage (Voltage Cut) L2 | Indicates that voltage on at least L2 phase has fallen below the Umin threshold for longer than the T time delay. | NA | | | | | X | | | | | | | | X | X | X | | | M | 2 | 3 |
| 84 | Missing Voltage (Voltage Cut) L3 | Indicates that voltage on at least L3 phase has fallen below the Umin threshold for longer than the time delay. | NA | | | | | X | | | | | | | | X | X | X | | | M | 2 | 4 |
| 85 | Normal Voltage L1 | Indicates that the main voltage is in normal limits again, e.g. after overvoltage, under voltage, missing voltage | NA | | | | | X | | | | | | | X | X | X | X | | | M | 2 | 5 |
| 86 | Normal Voltage L2 | Indicates that the main voltage is in normal limits again, e.g. after overvoltage, under voltage, missing voltage | NA | | | | | X | | | | | | | | X | X | X | | | M | 2 | 6 |
| 87 | Normal Voltage L3 | Indicates that the main voltage is in normal limits again, e.g. after overvoltage, under voltage, missing voltage | NA | | | | | X | | | | | | | | X | X | X | | | M | 2 | 7 |
| 88 | Phase sequence reversal | Indicates wrong main connection. Usually indicates fraud or wrong installation. For poly phase connection only. | NA | X | | | | | | | | | | | | X | X | X | | | M | 2 | 11 |

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| 89 | Missing neutral | Indicates that the neutral connection from the supplier to the meter is interrupted (but the neutral connection to the load prevails). The phase voltages measured by the meter may differ from their nominal values | NA | X | | | | | | | | | | | X | X | X | X | | | O | 2 | 8 | |
| 90 | Load Unbalance | Indicates phase asymmetry due to large unbalance of loads connected | NA | | | | | X | | | | | | | | X | X | X | | | M | 2 | 9 | |
| 91 | Current Reversal | Indicates unexpected energy export (for devices which are configured for energy import measurement only) | NA | | X | | | | | | | | | | | X | X | X | | | O | 2 | 10 | |
| 92 | Bad Voltage Quality L1 | acc. to section 9.1.1.1 of FID2 | NA | | | | | X | | | | | | | X | X | X | X | | | M | 2 | 14 | |
| 93 | Bad Voltage Quality L2 | acc. to section 9.1.1.1 of FID2 | NA | | | | | X | | | | | | | | X | X | X | | | M | 2 | 15 | |
| 94 | Bad Voltage Quality L3 | acc. to section 9.1.1.1 of FID2 | NA | | | | | X | | | | | | | | X | X | X | | | M | 2 | 16 | |
| 95 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 96 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 97 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 98 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 99 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | Communication error M-Bus channel 1 | Indicates a communication problem when reading the meter connected to channel 1 of the M-Bus | | | | | X | | | | | | | | X | X | X | X | | | M | 1 | 16 | |
| 101 | Communication ok Mbus channel 1 | Indicates that the communication with the M-Bus meter connected to channel 1 of the M-Bus is ok | | | | | X | | | | | | | | X | X | X | X | | | M | | | |
| 102 | Replace Battery M-Bus channel 1 | Indicates that the battery must be exchanged due to the expected end of life time. | | | | | X | | | | | | | | X | X | X | X | | | M | | | |
| 103 | Fraud attempt M-Bus channel 1 | Indicates that a fraud attempt has been registered. | | | | | X | | | | | | | | X | X | X | X | | | M | 1 | 20 | |
| 104 | Clock adjusted M-Bus channel 1 | Indicates that the clock has been adjusted. | | | | | X | | | | | | | | X | X | X | X | | | M | | | |
| 105 | New M-Bus device installed channel 1 | Indicated the meter (M-Bus master) has registered a M-Bus device connected to channel 1 with a new serial number | | | | | X | | | | | | | | X | X | X | X | | | M | 2 | 19 | |
| 106 | Permanent Error M-Bus channel 1 | Severe error reported by M-Bus device | | | | | X | | | | | | | | X | X | X | X | | | M | 1 | | |
| 107 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 108 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 109 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 110 | Communication error M-Bus channel 2 | Indicates a communication problem when reading the meter connected to channel 2 of the M-Bus | | | | | X | | | | | | | | X | X | X | X | | | M | 1 | 17 | |

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| 111 | Communication ok Mbus channel 2 | Indicates that the communication with the M-Bus meter connected to channel 2 of the M-Bus is ok again. | | | | | X | | | | | | | X | X | X | X | | | M | | | | |
| 112 | Replace Battery M-Bus channel 2 | Indicates that the battery must be exchanged due to the expected end of life time. | | | | | X | | | | | | | X | X | X | X | | | M | 1 | | | |
| 113 | Fraud attempt M-Bus channel 2 | Indicates that a fraud attempt has been registered in the M-Bus device. | | | | | X | | | | | | | X | X | X | X | | | M | 1 | 21 | | |
| 114 | Clock adjusted M-Bus channel 2 | Indicates that the clock has been adjusted | | | | | X | | | | | | | X | X | X | X | | | M | | | | |
| 115 | New M-Bus device installed channel 2 | Indicated the meter (M-Bus master) has registered a M-Bus device connected to channel 2 with a new serial number | | | | | X | | | | | | | X | X | X | X | | | M | 2 | 20 | | |
| 116 | Permanent Error M-Bus channel 2 | Severe error reported by M-Bus device (Bit 3 in MBUS status EN13757) | | | | | X | | | | | | | X | X | X | X | | | M | 1 | | | |
| 117 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 118 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 119 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 120 | Communication error M-Bus channel 3 | Indicates a communication problem when reading the meter connected to channel 3 of the M-Bus | | | | | X | | | | | | | X | X | X | X | | | M | 1 | 18 | | |
| 121 | Communication ok Mbus channel 3 | Indicates that the communication with the M-Bus meter connected to channel 3 of the M-Bus is ok again. | | | | | X | | | | | | | X | X | X | X | | | M | | | | |
| 122 | Replace Battery M-Bus channel 3 | Indicates that the battery must be exchanged due to the expected end of life time. | | | | | X | | | | | | | X | X | X | X | | | M | 1 | | | |
| 123 | Fraud attempt M-Bus channel 3 | Indicates that a fraud attempt has been registered. | | | | | X | | | | | | | X | X | X | X | | | M | 1 | 22 | | |
| 124 | Clock adjusted M-Bus channel 3 | Indicates that the clock has been adjusted. | | | | | X | | | | | | | X | X | X | X | | | M | | | | |
| 125 | New M-Bus device installed channel 3 | Indicated the meter (M-Bus master) has registered a M-Bus device connected to channel 3 with a new serial number | | | | | X | | | | | | | X | X | X | X | | | M | 2 | 21 | | |
| 126 | Permanent Error M-Bus channel 3 | Severe error reported by M-Bus device (Bit 3 in MBUS status EN13757) | | | | | X | | | | | | | X | X | X | X | | | M | 1 | | | |
| 127 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 128 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 129 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |

| Event Code | Event Name | Description | Sub-events | Group of Events | | | | | | | | | | | | Group of Devices | | | | Parameteters (EndDeviceEventsDetails) (Note: more that Event Code and Clock) | | Mandatory/Optional | Alarm | |
|------------|--------------------------------------|--|------------|--------------------|----------------------------|-------------------------|-----------------|-------------------------|-------------------|-------------------------|---------------------|---------------------|---------------------|---------------------|----------|------------------------------|---------------|------------------|------|---|--------------------|--------------------|---------|--|
| | | | | Standard Event Log | Fraud (Security) Event Log | Disconnect or Event Log | M-bus Event Log | Power Quality Event Log | Communication Log | Power Failure Event Log | M-Bus control Log 1 | M-Bus control Log 2 | M-Bus control Log 3 | M-Bus control Log 4 | 1P Meter | 3P Meter (Direct Connection) | 3P Meter (CT) | 3P Meter (CT/PT) | Name | Value | Alarm Register No. | | Bit No. | |
| 130 | Communication error M-Bus channel 4 | Indicates a communication problem when reading the meter connected to channel 4 of the M-Bus | | | | | X | | | | | | | X | X | X | X | | | M | 1 | 19 | | |
| 131 | Communication ok Mbus channel 4 | Indicates that the communication with the M-Bus meter connected to channel 4 of the M-Bus is ok again. | | | | | X | | | | | | | X | X | X | X | | | M | | | | |
| 132 | Replace Battery M-Bus channel 4 | Indicates that the battery must be exchanged due to the expected end of life time. | | | | | X | | | | | | | X | X | X | X | | | M | 1 | | | |
| 133 | Fraud attempt M-Bus channel 4 | Indicates that a fraud attempt has been registered. | | | | | X | | | | | | | X | X | X | X | | | M | 1 | 23 | | |
| 134 | Clock adjusted M-Bus channel 4 | Indicates that the clock has been adjusted | | | | | X | | | | | | | X | X | X | X | | | M | | | | |
| 135 | New M-Bus device installed channel 4 | Indicated the meter (M-Bus master) has registered a M-Bus device connected to channel 4 with a new serial number | | | | | X | | | | | | | X | X | X | X | | | M | 2 | 22 | | |
| 136 | Permanent Error M-Bus channel 4 | Severe error reported by M-Bus device (Bit 3 in MBUS status EN13757) | | | | | X | | | | | | | X | X | X | X | | | M | 1 | | | |
| 137 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 138 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 139 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 140 | No connection timeout | There has been no remote communication on application layer for a predefined period of time; i.e. meter could not be reached remotely. | | | | | | | | | | | | | | | | | | | | | | |
| 141 | Modem Initialization Failure | Modem's response to initialization AT command(s) is invalid or ERROR or no response received | NA | | | | | X | | | | | | X | X | X | X | | | M | | | | |
| 142 | SIM Card Failure | SIM card is not inserted or is not recognized | NA | | | | | X | | | | | | X | X | X | X | | | M | | | | |
| 143 | SIM Card Ok | SIM card has been correctly detected | NA | | | | | X | | | | | | X | X | X | X | | | M | 1 | 14 | | |
| 144 | GSM Registration Failure | Modem's registration on GSM network was not successful | NA | | | | | X | | | | | | X | X | X | X | | | M | | | | |
| 145 | GPRS Registration Failure | Modem's registration on GPRS network was not successful | NA | | | | | X | | | | | | X | X | X | X | | | M | | | | |
| 146 | PDP Context Established | PDP context is established | NA | | | | | X | | | | | | X | X | X | X | | | M | | | | |
| 147 | PDP Context Destroyed | PDP context is destroyed | NA | | | | | X | | | | | | X | X | X | X | | | M | | | | |
| 148 | PDP Context Failure | No Valid PDP context(s) retrieved | NA | | | | | X | | | | | | X | X | X | X | | | M | | | | |
| 149 | Modem SW Reset | Modem restarted by SW reset | NA | | | | | X | | | | | | X | X | X | X | | | M | | | | |
| 150 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 151 | GSM Outgoing Connection | Modem is successfully connected, initiated by an outgoing call | NA | | | | | X | | | | | | X | X | X | X | | | M | | | | |

| Event Code | Event Name | Description | Sub-events | Group of Events | | | | | | | | | | | | Group of Devices | | | Parameters (EndDeviceEventsDetails) (Note: more that Event Code and Clock) | | Mandatory/Optional | Alarm | |
|------------|--------------------------------------|--|------------|--------------------|----------------------------|-------------------------|-----------------|-------------------------|-------------------|-------------------------|---------------------|---------------------|---------------------|---------------------|----------|------------------------------|---------------|------------------|---|-------|--------------------|--------------------|---------|
| | | | | Standard Event Log | Fraud (Security) Event Log | Disconnect or Event Log | M-Bus Event Log | Power Quality Event Log | Communication Log | Power Failure Event Log | M-Bus control Log 1 | M-Bus control Log 2 | M-Bus control Log 3 | M-Bus control Log 4 | 1P Meter | 3P Meter (Direct Connection) | 3P Meter (CT) | 3P Meter (CT/PT) | Name | Value | | Alarm Register No. | Bit No. |
| 152 | GSM Incoming Connection | Modem is successfully connected, initiated by an incoming call | NA | | | | | | X | | | | | | X | X | X | X | | | M | | |
| 153 | GSM Hang-up | Modem is disconnected | NA | | | | | | X | | | | | | X | X | X | X | | | M | | |
| 154 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 155 | User Initialization Failure | Modem's initialization AT command(s) – specified in attribute 3 of the modem configuration object - is invalid. Error message or no response from the modem. | NA | | | | | | X | | | | | | X | X | X | X | | | M | | |
| 156 | Signal Quality Low | Signal strength too low, not known, or not detectable | NA | | | | | | X | | | | | | X | X | X | X | | | M | | |
| 157 | Auto Answer Number of Calls Exceeded | Number of calls has exceeded. The values given in the attribute number_of_calls. | NA | | | | | | X | | | | | | X | X | X | X | | | M | | |
| 158 | Local communication attempt | Indicates a successful communication on any local port has been initiated. | NA | | | | | | X | | | | | | X | X | X | X | | | M | 2 | 18 |
| 159 | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | Manual disconnection M-Bus channel 1 | Indicates that the disconnecter has been manually disconnected. | | | | | | | | | X | | | | X | X | X | X | | | M | | |
| 161 | Manual connection MBus channel 1 | Indicates that the disconnecter has been manually connected. | | | | | | | | | X | | | | X | X | X | X | | | M | | |
| 162 | Remote disconnection M-Bus channel 1 | Indicates that the disconnecter has been remotely disconnected. | | | | | | | | | X | | | | X | X | X | X | | | M | | |
| 163 | Remote connection MBus channel 1 | Indicates that the disconnecter has been remotely connected. | | | | | | | | | X | | | | X | X | X | X | | | M | | |
| 164 | Valve alarm M-Bus channel 1 | Indicates that a valve alarm has been registered. | | | | | | | | | X | | | | X | X | X | X | | | M | 2 | 27 |
| 165 | Local disconnection MBus channel 1 | Indicates that the disconnecter has been locally disconnected. | | | | | | | | | X | | | | X | X | X | X | | | M | | |
| 166 | Local connection M-Bus channel 1 | Indicates that the disconnecter has been locally connected. | | | | | | | | | X | | | | X | X | X | X | | | M | | |
| 167 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 168 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 169 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 170 | Manual disconnection M-Bus channel 2 | Indicates that the disconnecter has been manually disconnected. | | | | | | | | | X | | | | X | X | X | X | | | M | | |
| 171 | Manual connection MBus channel 2 | Indicates that the disconnecter has been manually connected. | | | | | | | | | X | | | | X | X | X | X | | | M | | |
| 172 | Remote disconnection M-Bus channel 2 | Indicates that the disconnecter has been remotely disconnected. | | | | | | | | | X | | | | X | X | X | X | | | M | | |
| 173 | Remote connection MBus channel 2 | Indicates that the disconnecter has been remotely connected. | | | | | | | | | X | | | | X | X | X | X | | | M | | |
| 174 | Valve alarm M-Bus channel 2 | Indicates that a valve alarm has been registered. | | | | | | | | | X | | | | X | X | X | X | | | M | 2 | 28 |
| 175 | Local disconnection MBus channel 2 | Indicates that the disconnecter has been locally disconnected. | | | | | | | | | X | | | | X | X | X | X | | | M | | |

| Event Code | Event Name | Description | Sub-events | Group of Events | | | | | | | | | | | | Group of Devices | | | Parameters (EndDeviceEventsDetails) (Note: more that Event Code and Clock) | | Mandatory/Optional | Alarm | |
|------------|--|---|------------|--------------------|----------------------------|-------------------------|-----------------|-------------------------|-------------------|-------------------------|---------------------|---------------------|---------------------|---------------------|----------|------------------------------|---------------|------------------|---|-------|--------------------|--------------------|---------|
| | | | | Standard Event Log | Fraud (Security) Event Log | Disconnect or Event Log | M-bus Event Log | Power Quality Event Log | Communication Log | Power Failure Event Log | M-Bus control Log 1 | M-Bus control Log 2 | M-Bus control Log 3 | M-Bus control Log 4 | 1P Meter | 3P Meter (Direct Connection) | 3P Meter (CT) | 3P Meter (CT/PT) | Name | Value | | Alarm Register No. | Bit No. |
| 176 | Local connection M-Bus channel 2 | Indicates that the disconnecter has been locally connected. | | | | | | | | | X | | | | X | X | X | X | | | M | | |
| 177 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 178 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 179 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 180 | Manual disconnection M-Bus channel 3 | Indicates that the disconnecter has been manually disconnected. | | | | | | | | | | | X | | X | X | X | X | | | M | | |
| 181 | Manual connection MBus channel 3 | Indicates that the disconnecter has been manually connected. | | | | | | | | | | | X | | X | X | X | X | | | M | | |
| 182 | Remote disconnection M-Bus channel 3 | Indicates that the disconnecter has been remotely disconnected. | | | | | | | | | | | X | | X | X | X | X | | | M | | |
| 183 | Remote connection MBus channel 3 | Indicates that the disconnecter has been remotely connected. | | | | | | | | | | | X | | X | X | X | X | | | M | | |
| 184 | Valve alarm M-Bus channel 3 | Indicates that a valve alarm has been registered. | | | | | | | | | | | X | | X | X | X | X | | | M | 2 | 29 |
| 185 | Local disconnection MBus channel 3 | Indicates that the disconnecter has been locally disconnected. | | | | | | | | | | | X | | X | X | X | X | | | M | | |
| 186 | Local connection M-Bus channel 3 | Indicates that the disconnecter has been locally connected. | | | | | | | | | | | X | | X | X | X | X | | | M | | |
| 187 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 188 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 189 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 190 | Manual disconnection M-Bus channel 4 | Indicates that the disconnecter has been manually disconnected. | | | | | | | | | | | | X | X | X | X | X | | | M | | |
| 191 | Manual connection MBus channel 4 | Indicates that the disconnecter has been manually connected. | | | | | | | | | | | | X | X | X | X | X | | | M | | |
| 192 | Remote disconnection M-Bus channel 4 | Indicates that the disconnecter has been remotely disconnected. | | | | | | | | | | | | X | X | X | X | X | | | M | | |
| 193 | Remote connection MBus channel 4 | Indicates that the disconnecter has been remotely connected. | | | | | | | | | | | | X | X | X | X | X | | | M | | |
| 194 | Valve alarm M-Bus channel 4 | Indicates that a valve alarm has been registered. | | | | | | | | | | | | X | X | X | X | X | | | M | 2 | 30 |
| 195 | Local disconnection MBus channel 4 | Indicates that the disconnecter has been locally disconnected. | | | | | | | | | | | | X | X | X | X | X | | | M | | |
| 196 | Local connection M-Bus channel 4 | Indicates that the disconnecter has been locally connected. | | | | | | | | | | | | X | X | X | X | X | | | M | | |
| 197 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 198 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 199 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 200 | Current in absence of voltage at L1 detected | | NA | | X | | | | | | | | | | X | X | X | X | | | M | 1 | |
| 201 | Current in absence of voltage at L2 detected | | NA | | X | | | | | | | | | | | X | X | X | | | M | 1 | |

| Event Code | Event Name | Description | Sub-events | Group of Events | | | | | | | | | | | | Group of Devices | | | | Parameteters (EndDeviceEventsDetails) (Note: more that Event Code and Clock) | | Mandatory/Optiona! Alarm Register No. | Alarm | |
|------------|--|--|------------|--------------------|----------------------------|-------------------------|-----------------|-------------------------|-------------------|-------------------------|---------------------|---------------------|---------------------|---------------------|----------|------------------------------|---------------|------------------|------------------------|---|---------|--|-------|--|
| | | | | Standard Event Log | Fraud (Security) Event Log | Disconnect or Event Log | M-bus Event Log | Power Quality Event Log | Communication Log | Power Failure Event Log | M-Bus control Log 1 | M-Bus control Log 2 | M-Bus control Log 3 | M-Bus control Log 4 | 1P Meter | 3P Meter (Direct Connection) | 3P Meter (CT) | 3P Meter (CT/PT) | Name | Value | Bit No. | | | |
| 202 | Current in absence of voltage at L3 detected | | NA | | X | | | | | | | | | | | X | X | X | | | M | 1 | | |
| 203 | Manual demand reset | | NA | X | | | | | | | | | | | X | X | X | X | | | M | | | |
| 204 | Power direction has changed | | NA | | | | | X | | | | | | | X | X | X | X | | | M | | | |
| 205 | Manufacturer Phase and Null current are not equal (for single phase Meter)specific | If value of current in Phase and null paths differ more than a threshold (typically 12.5%) this event recorded just for single phase meters. | NA | | X | | | | | | | | | | X | | | | | | M | | | |
| 206 | Manufacturer Phase and Null current are equal again (for single phase Meter)specific | If value of current in Phase and null paths differ less than a threshold (typically 12.5%) this event recorded just for single phase meters. | NA | | X | | | | | | | | | | X | | | | | | M | | | |
| 207 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 208 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 209 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 210 | Long power failure in all phases | | NA | | | | | | | X | | | | | X | X | X | X | Duration | | M | | | |
| 211 | Long power failure in phase1 | | NA | | | | | | | X | | | | | X | X | X | X | Duration | | M | | | |
| 212 | Long power failure in phase2 | | NA | | | | | | | X | | | | | | X | X | X | Duration | | M | | | |
| 213 | Long power failure in phase3 | | NA | | | | | | | X | | | | | | X | X | X | Duration | | M | | | |
| 214 | Communication module removed | | NA | | | | | | X | | | | | | X | X | X | X | | | M | | | |
| 215 | Communication module inserted | | NA | | | | | | X | | | | | | X | X | X | X | | | M | | | |
| 216 | Factory reset | | NA | X | | | | | | | | | | | | | | | | | M | | | |
| 217 | Under Voltage end L1 | | NA | | | | | X | | | | | | | X | X | X | X | Amplitude and Duration | | M | | | |
| 218 | Under Voltage end L2 | | NA | | | | | X | | | | | | | | X | X | X | Amplitude and Duration | | M | | | |
| 219 | Under Voltage end L3 | | NA | | | | | X | | | | | | | | X | X | X | Amplitude and Duration | | M | | | |
| 220 | Overvoltage end L1 | | NA | | | | | X | | | | | | | X | X | X | X | Amplitude and Duration | | M | | | |
| 221 | Overvoltage end L2 | | NA | | | | | X | | | | | | | | X | X | X | Amplitude and Duration | | M | | | |
| 222 | Overvoltage end L3 | | NA | | | | | X | | | | | | | | X | X | X | Amplitude and Duration | | M | | | |
| 223 | Missing Voltage end L1 | | NA | | | | | X | | | | | | | X | X | X | X | Amplitude and Duration | | M | | | |
| 224 | Missing Voltage end L2 | | NA | | | | | X | | | | | | | | X | X | X | Amplitude and Duration | | M | | | |
| 225 | Missing Voltage end L3 | | NA | | | | | X | | | | | | | | X | X | X | Amplitude and Duration | | M | | | |
| 226 | Firmware activation failed | | NA | X | | | | | | | | | | | X | X | X | X | | | M | | | |
| 227 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 228 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 229 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 230 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 231 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |
| 232 | Reserved | | | | | | | | | | | | | | | | | | | | | | | |

| Event Code | Event Name | Description | Sub-events | Group of Events | | | | | | | | | | | | Group of Devices | | | Parameters (EndDeviceEventsDetails) (Note: more than Event Code and Clock) | | Mandatory/Optional | Alarm | |
|------------|--------------------------------|--|--|--------------------|----------------------------|-------------------------|-----------------|-------------------------|-------------------|-------------------------|---------------------|---------------------|---------------------|---------------------|----------|------------------------------|---------------|------------------|---|-------|--------------------|--------------------|---------|
| | | | | Standard Event Log | Fraud (Security) Event Log | Disconnect or Event Log | M-Bus Event Log | Power Quality Event Log | Communication Log | Power Failure Event Log | M-Bus control Log 1 | M-Bus control Log 2 | M-Bus control Log 3 | M-Bus control Log 4 | 1P Meter | 3P Meter (Direct Connection) | 3P Meter (CT) | 3P Meter (CT/PT) | Name | Value | | Alarm Register No. | Bit No. |
| 233 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 234 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 235 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 236 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 237 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 238 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 239 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 240 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 241 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 242 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 243 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 244 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 245 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 246 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 247 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 248 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 249 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 250 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 251 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 252 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 253 | Reserved | | | | | | | | | | | | | | | | | | | | | | |
| 254 | Load profile cleared | Any of the profiles cleared. Note: If it appears in Standard Event Log then any of the E-load profiles was cleared. If the event appears in the M-Bus Event Log then one of the M-Bus load profiles was cleared. | 1 – Monthly 2 – LP1 (hourly) 3 – LP2 (daily) 4 - Supervision Average 5 - Supervision Minimum 6 - Supervision Maximum 7 - Supervision Harmonics 8 - LP Mbus1 9 - LP Mbus2 10 – LP Mbus 3 11 – LP Mbus 4 | X | | | X | | | | | | | | X | X | X | X | | | M | | |
| 255 | Any of event logs were cleared | Indicates that the event log was cleared. This is always the first entry in an event log. It is only stored in the affected event log. | | X | X | X | X | X | X | X | | | | | X | X | X | X | | | M | | |