

ELM1 Protocol Entries

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This description considers protocol entries of communication modules with version from S1m14a1v17/a2v17 to S1m14a1v27/a2v27.

Format

Format syntax: 'row;size;counter;date;time;message'.

`row` is the table row in the ring buffer of records, it is coded as 4 hex characters.

`size` is the table size of the ring buffer (number of rows), it is coded as 4 hex characters.

`counter` will be incremented with every ring buffer overrun, it is coded as 6 hex characters.

`date` is the date when the entry is recorded, it is coded in format 'YYYY/MM/DD'.

`time` is the time when the entry is recorded, it is coded in format 'hh:mm:ss'.

`message` is the info of the entry, it is coded as ASCII text with maximum 32 characters.

Messages

AL *ln* **RIP** *sip*

Alarm line *ln* reset initiated via source IP-address *sip*. If the source IP is 0.0.0.0 then the reset command was sent via serial interface.

ALIL *ln* SE *sn* IDLE

ALIL *ln* SE *sn* ACTIVE

ALIL *ln* SE *sn* LATCHED

The condition 'alarm if lower threshold underrun' sent to alarm line *ln*, caused at sensor *sn*, is changed to status 'idle' / 'active' / 'latched'.

ALIO *ln* HND *hn* IDLE

ALIO *ln* HND *hn* ACTIVE

ALIO *ln* HND *hn* LATCHED

The condition 'alarm if handle opened' sent to alarm line *ln*, caused at handle *hn*, is changed to status 'idle' / 'active' / 'latched'.

ALIU *ln* SE *sn* IDLE

ALIU *ln* SE *sn* ACTIVE

ALIU *ln* SE *sn* LATCHED

The condition 'alarm if upper threshold exceeded' sent to alarm line *ln*, caused at sensor *sn*, is changed to status 'idle' / 'active' / 'latched'.

HND *hn* CLOSED

HND *hn* OPENED

The handle *hn* was opened / closed.

HND *hn* CODE *cp* CHANGED

At the handle *hn* the PIN code on position *cp* is changed.

HND *hn* CODE ACCEPT

HND *hn* CODE ACCEPT P*cp*

HND *hn* CODE REFUSE

At handle *hn* the PIN code was accepted / refused. The appendix P*cp* tells the PIN code position, it will be generated if the version of communication module is S1m14a1v23/a2v23 or higher and the version of handle module is S1m11a1v7 or higher.

HND *hn* TOG *pt*

The handle *hn* was tried to open, caused by phone (e.g. GSM) terminal *pt*. Please, note that the result of this action is issued in other messages (HND *hn* CODE ACCEPT/REFUSE and HND *hn* OPENED/CLOSED).

HND *hn* TOIP *ip*

HND *hn* TOIP *ip*: REFUSE

The handle *hn* was tried to open, caused by SNMP command at IP address *ip*. If the IP is 0.0.0.0 then the reset command was sent via serial interface. The appendix ': REFUSE' will be generated if the PIN code was invalid.

HND *hn* TOK *kt*

HND *hn* TOK *kt* +L *ct* LR*cr*

The handle *hn* was tried to open, caused by keyboard terminal *kt*. If the appendix '+L *ct* LR*cr*' is issued then the PIN code was given by the card (e.g. Legic) terminal *ct* with a card registered in Card-Register-Table row *cr*. Please, note that the result of this action is issued in other messages (HND *hn* CODE ACCEPT/REFUSE and HND *hn* OPENED/CLOSED).

HND *hn* TOL *ct* LR*cr*

The handle *hn* was tried to open, caused by the card (e.g. Legic) terminal *ct* with a card registered in Card-Register-Table row *cr*. Please, note that the result of this action is issued in other messages (HND *hn* CODE ACCEPT/REFUSE and HND *hn* OPENED/CLOSED).

MED R=*row* T=*type* C=*canAddr*

Invalid module table entry deleted. The additional parameters *row*, *type* and *canAddr* are info for service staff only.

MTO=ON *canVar*, *canAddr*

MTO=OFF *canVar*, *canAddr*

Module timeout ON/OFF. The additional parameters *canVar* and *canAddr* are info for service staff only.

OUT *cn* ON

OUT *cn* OFF

Output contact *cn* if switched to ON/OFF.

POWER ON

The power of the communication module was switched on.

REP CLEAR

The report messages in the protocol table are cleared.

REP DUMMY *count*

A report dummy with number *count*. This may be done by service staff only.

REP EMPTY

When the power of the communication module was switched on there was not a report message in the protocol table. This can for example be caused by a faulty battery.