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GMC+ RS232 PAGERLINK V2 Protocol

General:

A message is composed entirely of ASCII characters.

A message always starts with '#' followed by a 3 digit code. This code indicates which contains the rest of the message. The end of the message is indicated by carriage return (0D hex).



Possible fields:

- <date>** The date, in the form dd-mm-yyyy.
Numbers also show leading 0 so that the numbers always have the same width.
Example 04-03-2002
- <time>** Time, in the form uu:mm:ss
Numbers also show leading 0 so that the numbers always have the same width.
Example 05:02:23
- <cnr>** Number Control panel.
3 numbers, with leading 0.
- <lnr>** Number loop.
3 numbers, with leading 0.
- <znr>** Number zone.
4 numbers, with leading 0.
- <gnr>** Number evacuationarea.
4 numbers, with leading 0.
- <enr>** Number encoder.
3 numbers, with leading 0.
- <onr>** Number output.
4 numbers, with leading 0.
- <sensor>** Indicates what type of sensor has given the report.
The field is three characters wide. Possible values:
- 'ISD' Ionique
 - 'OD' Optical
 - 'TVC' Thermovelocimetric
 - 'T' Thermostatic
 - 'MS' Multi sensor
 - 'PRO' Propane
 - 'WD' Manual callpoint
 - 'CNV' Conventional
 - 'IOT' IOT detector
 - 'INP' Input
- <tekst>** Encoder text. (Always 40 characters width!)

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Messages broadcast by the control panel

Reset

#RES, D<date>,T<time>

Day mode, delayed reporting (is repeated after each reset).

#DAG,D<date>,T<time>

Night mode, direct reporting (is repeated after each reset).

#NAC,D<date>,T<time>

Evacuation

#ONT,D<date>,T<time>,G<gnr>,B<tekst>

Buzzer stop

#ZST,D<date>,T<time>

Siren stop

#SST,D<date>,T<time>

Earth fault

#AST,D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,B<tekst>

Battery fault

#BST,D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,B<tekst>

Fault

#STO,D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,B<tekst>

Fire-alarm

#BAL,D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,S<sensor >,B<tekst>

Pre alarm

#PAL,D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,S<sensor >,B<tekst>

Short circuit encoder

#KOE,D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,B<tekst>

No answer encoder

#GAE,D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,B<tekst>

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Detector unscrewed

#DUG,D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,B<tekst>

Wrong type encoder

#FTE,D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,B<tekst>

Mains fault

#NST,D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,B<tekst>

Maintenance warning

#OND, D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,B<tekst>

Encoder put out of use (also dispatched after a reset for each encoder which is out of use).

#UBE,D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,B<tekst>

Encoder put in use

#IBE,D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,B<tekst>

Encoder put in maintenance mode (also dispatched after a reset for each encoder which is in maintenance mode).

#PRB,D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,B<tekst>

Encoder put out of maintenance

#PRE,D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,B<tekst>

Communication-test (answer to communication test command)

#TST

Output on (relay)

#OUA,D<date>,T<time>, C<cnr>,O<onr>,B<tekst>

Output off (relay)

#OUU,D<date>,T<time>, C<cnr>,O<onr>,B<tekst>

Tamper switch open

#TSO,D<date>,T<time>,C<cnr>,L<lnr>,Z<znr>,E<enr>,B<tekst>

Wrong command received

#ERR,< the receiving line without '#' which contains the error >

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Commands to the control panel

Reset (control panel responds with 'Reset' message)

#RES

Siren stop (control panel responds with 'Siren-stop' message)

#SST

Evacuation (control panel responds with 'evacuation' message)

#ONT,G<gnr>

Adjusting clock

#KLK,D<date>,T<time>

Communication test (control panel responds with communication test)

#TST

Put encoder in use (control panel responds with 'Encoder in use' message)

#IBL,C<cnr>,L<lnr>,E<enr>

or

#IBZ,Z<znr>,E<enr>

Put encoder out of use (control panel responds with 'Encoder out of use' message)

#UBL,C<cnr>,L<lnr>,E<enr>

or

#UBZ,Z<znr>,E<enr>

Request all data (Control panel will broadcast all reports beginning from the last reset)

Also displays the status of all outputs (relays) which are active at this time.

#RAD