



2N[®] Lift1

2N[®] Lift8

P100 Protocol description

Description of P100 protocol implemented in 2N[®] Lift1 and 2N[®] Lift8

Version 1.2

www.2n.cz

Packet structure

Alarm type	Data length	Data	Checksum
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Alarm type:

1 character, Indicates the type of alarm:

1 = Alarm with voice communication

2 = Operational failure

3 = Self test alarm

Data length: 1 character, Indicates the length of the data field.

Data: 0 - 15 characters.

Checksum: 2 characters.

The checksum is calculated by summing the alarm type, the data length and all the characters in the data field. The resulting sum is converted to hexadecimal format and inserted as a 2 character checksum (00h - FFh).

Signalling

DTMF, standard tone length 100 ms +/- 5 ms, pause 100 ms +/- 5 ms. Can be adjusted in a range of 60 – 140 ms

Tones used in data packet

0 – 9 = DTMF 0 – 9

10 - 13 = DTMF A – D

14 = DTMF *

15 = DTMF #

Control tones at P100 signalling

Start = DTMF D

Acknowledge = DTMF A

Retransmit = DTMF C

Type of alarms

Alarm with voice communication

Alarm type used for sending emergency alarms with following voice communication.

Alarm Type: 1
Data Length: 8 characters
Data 1 - 8: P100 ID Code, 8 digits

Operational failure

Alarm type used for sending operational failure alarms and status information messages.

Alarm Type: 2
Data Length: 11 characters
Data 1 - 8: P100 ID Code, 8 digits
Data 9-11: Type of operational failure
100 – Battery failure start (2N[®] Lift1 with 2N EasyGatePRO only)*
101 – Battery failure end (2N[®] Lift1 with 2N EasyGatePRO only)*
200 – Mic/Speaker failure start**
201 – Mic/Speaker failure end**
500 – End of alarm info
800 – Stuck emergency button start
801 – Stuck emergency button end

* represents the status - battery out of order, missing battery, or battery cannot power the device for 1h long call

** applicable only for 2N[®]Lift8

Checking call

Alarm type used for sending automated test alarms at a repetitive interval.

Alarm Type: 3
Data Length: 8 characters
Data 1 - 8: P100 ID Code, 8 digits



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