

RTD CONVERTER COMMUNICATED BY RS485

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PPL100



PPL110



PPL112 (double)



- PPL100 is mounted to the head of thermometer size DIN "B", PPL110 a PPL112 is snapped onto the 35 mm DIN rail.
- convert the resistance from the Pt100, Pt1000 (-55 to +640°C) or Ni100, Ni1000 (-40 to +230°C) sensor to the number
- converter diagnose range of sensor (Pt100, Ni100 or Pt1000, Ni1000) alone
- sensor can be connected two or three wire
- output by RS485 line with communication speed range between 2400 to 19200 Bd.
- suitable for industry using

Specification:

- | | | |
|-----------------------------------|--------------|---|
| - input: | PPL100, 110: | Pt100 or Pt1000 by IEC 751, range -55...+640°C, also Ni1000 (-40...+230°C) |
| | PPL112: | 2xPt100, (customer Pt1000 or Ni1000), input isn't galvanic separate ! |
| - connection of input: | | 3 or 2 wire |
| - compensation (3-wire sensor): | | less than ±0,02°C for 1 □ lead resistance, for R < 20 □ /1 wire |
| - sensor excitation | | <0,6mA, (<0,9mA for PPL112) |
| - output protocol: | | RS485, protocol ASCII or MODBUS-RTU, see. description of protocol |
| communication speed | | 600..19200 Bd for ASCII, 2400..19200 Bd for MODBUS |
| - terminate the line: | | resistors 39k□ rest state definition; termination must be fill in |
| - accuracy: | | conformity error: 0,03% (= about 0,2°C) |
| temperature effect: | | -0,05°C/10°C |
| power supply effect: | | < 0,005%/V of span |
| - resolution: | | 0,01°C |
| - adjustable response time: | | 0 - 255ms |
| - conversation time: | | 202 - 810ms - see protocol (540ms pro PPL112) |
| - digital filter | | average of two last measure |
| - addressability: | | by software |
| - supply voltage: | | 8...28V DC, polarity reversal protection |
| - current consumption: | | typically. 2mA, (2,5mA pro PPL112), during transmit typically 60mA |
| - ambient temperature: | | -25...+ 80°C |
| - adding a wire: | | terminal strip CUU max. 2,5 mm ² , with EMC disturbance upset use shield cable |
| - cover housing / terminal strip: | | IP40 / IP10 for rail DIN, IP68 / IP10 to the head |
| - customer linearization | | |

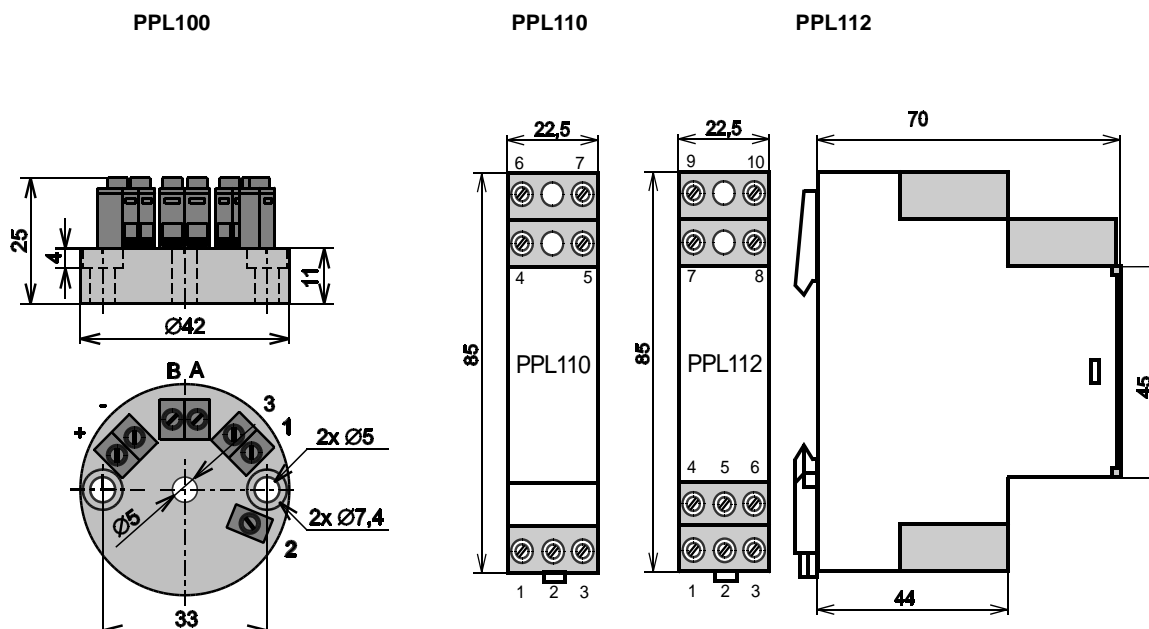
Terminal strip connection PPL100, PPL110:

- 4(B), 5(A): line RS485
6(-), 7(+): supply 8...28V DC
1, 2: sensor Pt100 (2W)
3: comp. wire Pt100 for 3w (on sensor connect with 2)

PPL112:

- 1, 2: first sensor Pt100 (2w)
3: comp. wire Pt100 for 3w (on sensor connect with 2)
4, 5: second sensor Pt100 (2w)
6: comp. wire Pt100 for 3w (on sensor connect with 5)
7(B), 8(A): line RS485
9(-), 10(+): supply 8...28V DC

Dimension chart:



Ordering:

Please state in each order :

- type of equipment
- quantity
- protocol

Conformity declaration:

Safety: Government Regulation No. 17/2003 Sb, does not apply to this instrument, as it is designed for operation below 75VDC.
 EMC: ČSN EN 61326-1:1997