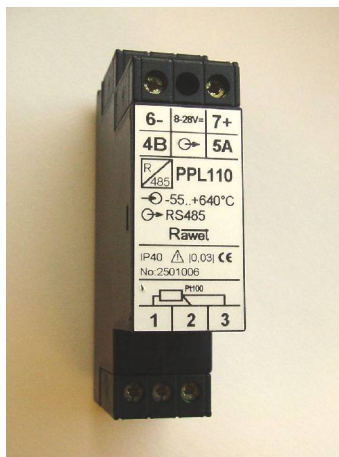


RTD CONVERTER COMUNICATED BY RS485

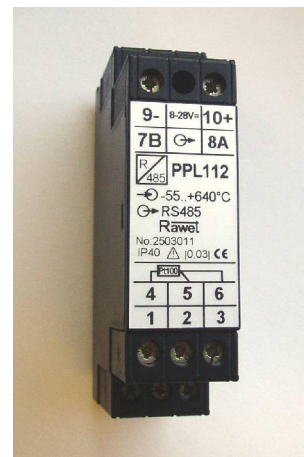
PPL100



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 !
3 or 2 wire
- connection of input: less than $\pm 0,02^\circ\text{C}$ for 1 Ω lead resistance, for $R < 20 \Omega$ / 1 wire
- compensation (3-wire sensor):: $< 0,6\text{mA}$, ($< 0,9\text{mA}$ for PPL112)
- sensor excitation RS485, protocol ASCII or MODBUS-RTU, see. description of protocol
- output protocol: 600..19200 Bd for ASCII, 2400..19200 Bd for MODBUS
communication speed resistors 39k Ω rest state definition; termination must be fill in
- terminate the line: 0,03% (= about 0,2°C)
- accuracy: conformity error: -0,05°C/10°C
temperature effect:
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 mm², with EMC disturbance upset use shield cable
- cover housing / terminal strip: IP40 / IP10 for rail DIN, IP68 / IP10 to the head
- customer linearization

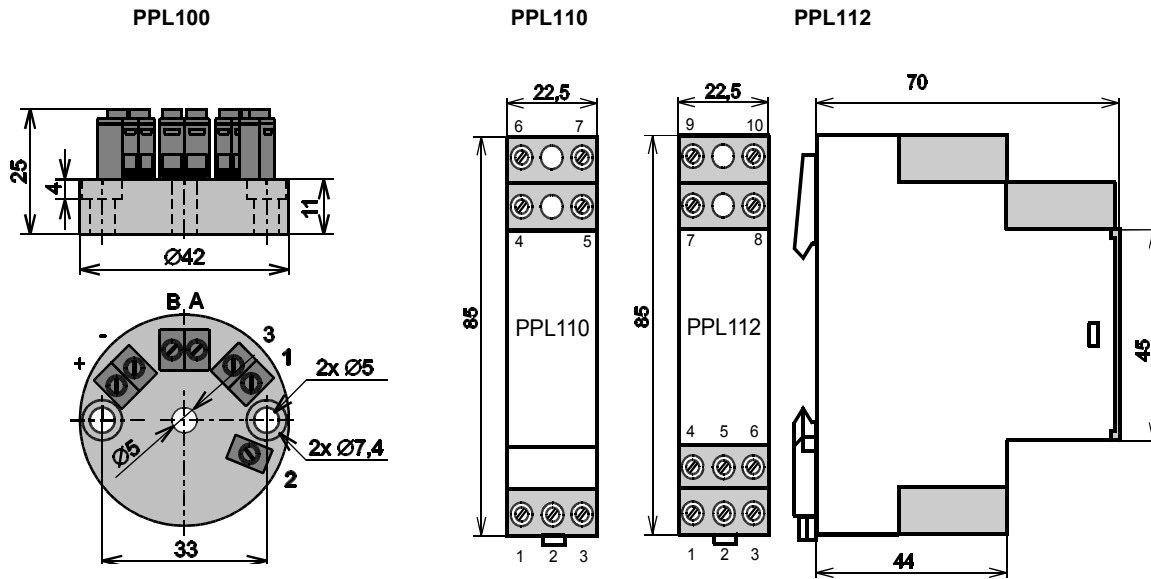
Terminal strip connection PPL100, PPL110:

- 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