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PP210, PP212

PROGRAMMABLE TRANSMITTER

PP210

- The transmitter is engineered to convert the measured standard signal such is temperature, resistance trasnsmitter or thermocouple.
Output signal is standard linearized 4..20mA without isolation.
- The converter is designed onto the 35 mm DIN rail.
- Transmitter can be programmed via PC program (range and linearization) PP212 is double transmitter PP210 with one another isolation 1kV

Technical data

- input:	thermometer:	Pt100 (–200…+610℃), Pt1000 (–200…+500℃) dle IEC 751
		Ni100, 1000 TKR 5000 or 6180 ppm/K (-60..180℃)
	potentiometer, resistance:	0..50, 100, 105, 250, 500, 1000,10 000, 5..105 Ω
	thermocouple:	E, J, K, T, R, S, B, N, L, C, D, G, F
	thermistor:	KTY81, NTC 10k,15k, 20k, 25k
		DC current: 0..24mA
		DC voltege: 0..15V, ±120mV
- cold junction compensation:		-30..70℃ ± 1℃ (Pt10 0)
- accuracy: measurement error:		< 0.1%
temperature induced err:		<0.02%/10K
- connection circuit		3wire, thermocouple - 2wire
- sensor lead resistance:		< 10 Ω /1 wire
- input filter:		0 .. 30 s
- sampling rate		< 50ms
- output current limiting:		min. < 3,5 mA, max > 22
- burden (Rb)		Rb = (Ub - 8V) / 22mA
- output:		4...20mA
- supply voltage:		8...30V DC
- ambient temperature:		-40..80℃
- relative humidity		95%, no condensation
- IP code:		housing:IP40, terminal strip:IP10
- screw terminal		≤ 1.75mm²;
- accessories		PK-USB, PC setup program

Type tests:

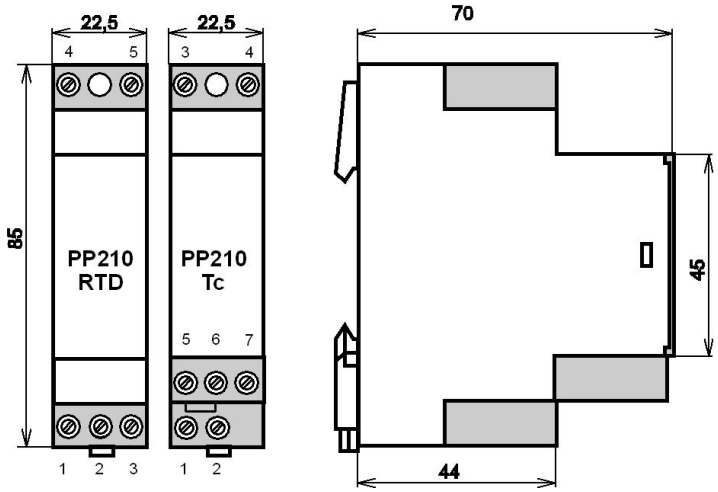
Standard type test:	to ČSN EN 60770-1 ed.2
EMC:	to ČSN EN 61326-1
Safety:	assessed acc. to ČSN EN 61010-1

A DC converter purchase order should include:

converter type	PP210 or PP212
number of units	10
programmable	yes or type and input range
	e.g. Pt100; 0 ..120℃, filter 0,5s

examples: PP210; 10pcs; Pt100; -20..80℃; filter 1s
PP210; 1pc; TC „K“, 0..500℃;filter 0,8s
PP210; 20pcs; Tc, programmable (all Thermocouples)
PP210; 20pcs; R, programmable (potenciometr, RTD,without thermistor...)
PP210; 13pcs; thermistor NTC10k, filter 1s
PP210; 5pcs; potenciometer, 0..1kΩ, filter 0,1s
PP210; 5pcs; resistance, 0..100Ω, filter 0,1s

Dimension drawing PP210
Connector is under cover

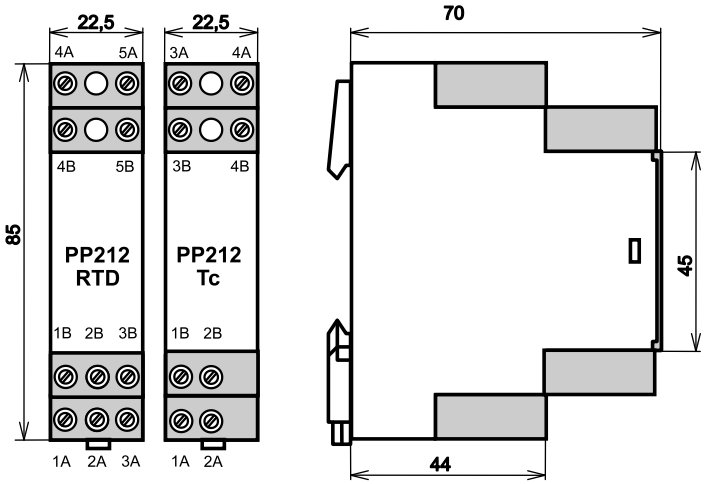


Terminal connection:

PP210 (RTD):
1,2,3...input
4,5 ...output 4..20mA

Thermocouple:
1,2...input Tc (1 +)
3,4..output
5,6…internal compensation
5,7…external compensation

Dimension drawing PP210
Connector is under cover

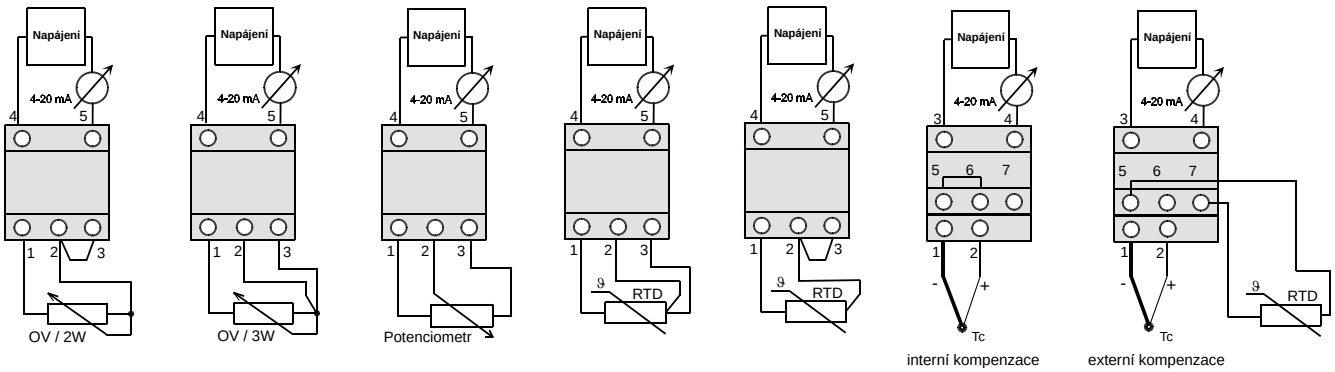


PP212 (RTD):
1A,2A,3A...input of transm. 1
1B,2B,3B...input of transm. 2
4A,5A.....output of transm. 1
4B,5B.....output of transm. 2

thermocouple:
1A,2A..... Tc input of transm. 1 (1 +)
1B,2B.....Tc input of transm. 2(1 +)
3A,4A.....output of transm. 1
3B,4B.....output of transm. 2
without external compensation - only internal compensation

PP210 / 212 : output current loop – any polarity

Connection diagram:



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