

TECHNICAL DATA

Universal inputs (programmable)		measurement ranges
- Pt100 (RTD, 3- or 2-wire)		-200 ÷ 850 °C
- Ni100 (RTD, 3- or 2-wire)		-50 ÷ 170 °C
- Pt500 (RTD, 3- or 2-wire)		-200 ÷ 620 °C
- Pt1000 (RTD, 3- or 2-wire)		-200 ÷ 520 °C
- thermocouple J (TC, Fe-CuNi)		-40 ÷ 800 °C
- thermocouple K (TC, NiCr-NiAl)		-40 ÷ 1200 °C
- thermocouple S (TC, PtRh 10-Pt)		-40 ÷ 1600 °C
- thermocouple B (TC, PtRh30PtRh6)		300 ÷ 1800 °C
- thermocouple R (TC, PtRh13-Pt)		-40 ÷ 1600 °C
- thermocouple T (TC, Cu-CuNi)		-25 ÷ 350 °C
- thermocouple E (TC, NiCr-CuNi)		-25 ÷ 820 °C
- thermocouple N (TC, NiCrSi-NiSi)		-35 ÷ 1300 °C
- current ($R_{in} = 50 \Omega$)		0/4 ÷ 20 mA
- voltage ($R_{in} = 110 k\Omega$)		0 ÷ 10 V
- voltage ($R_{in} > 2 M\Omega$)		0 ÷ 60 mV
- resistance (3- or 2-wire)		0 ÷ 2500 Ω
Number of measurement inputs		1
Response time for measurements (10 ÷ 90%)		0,25 ÷ 3 s (programmable)
Resistance of leads (RTD, Ω)		$R_L < 25 \Omega$ (for each line)
Resistance current (RTD, Ω)		400 μ A (Pt100, Ni100), 200 μ A (remaning)
Processing errors (at 25°C ambient temperature):		
- basic	- for RTD, mA, V,mV, Ω	0,1 % of measuring range \pm 1 digit
	- for thermocouples	0,2 % of measuring range \pm 1 digit
- additional for thermocouples		<2 °C (cold ends temperature)
- additional caused by ambient temperature changes		< 0,003 % of input range /°C
Resolution of measured temperature		0,1 °C
Binary inputs (contact or voltage <24V)		bistable, active level: short-circuit or < 0,8 V
Communication interface (RS485 i PRG, do not use at the same time)	- RS485 (galvanically separated), option - PRG programming link (no separation), standard	- bitrate 2,4 ÷ 115,2 kb/s, - format 8N1 (8 data bit, 1 bit stop, no parity bit), - MODBUS-RTU protocol (SLAVE)
Outputs (3 relays or SSR)	- relay (P1, P2, P3), standard - SSR (SSR1, SSR2, SSR3), option	5A / 250Vac (for resistive loads), SPST-NO transistor type NPN OC, 11V, internal resistance 440 Ω
Analogue outputs (1 current or voltage)	- current 0/4 ÷ 20 mA (standard) - voltage 0/2 ÷ 10 V (option) - output basic error	maximum resolution 1,4 μ A (14 bit) output load $R_o < 350 \Omega$ maximum resolution 0,7 mV (14 bit) output load $I_o < 3,7$ mA ($R_o > 2,7 k\Omega$) < 0,1 % of output range
7-segment LCD display with brightness control	- top - bottom	red 4 digits, height 10mm green 4 digits, height 7 mm
Signalling	- relays active - messages and errors	LED's red LED dispaly
Power supply (Usup)	- 230Vac (standard) - 24Vac/dc (option)	85 ÷ 260 Vac/ 3VA 20 ÷ 50 Vac/ 3VA, 20 ÷ 72 Vdc/ 3W
Power supply to filed transmitters		24Vdc / 30mA
Rated operating conditions		0 ÷ 50°C, <100 %RH (non-condensing)
Working environment		air and neutral gases
Protection rating		on a TS35 rail, 53x90x58mm, IP40(enclosure), IP20 (of the connections side)
Weight		~160g
Electromagnetic compatibility (EMC)		- immunity: acc. to PN-EN 61000-6-2 - emission: acc. to PN-EN 61000-6-4