



## Technical Data

<b>Universal input (programmable)</b>	<b>measurement ranges</b>	
- 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 ( $R_{we} = 50 \Omega$ )	0/4 ÷ 20 mA	
- voltage ( $R_{we} = 110 \text{ k}\Omega$ )	0 ÷ 10 V	
- voltage ( $R_{we} > 2 \text{ M}\Omega$ )	0 ÷ 60 mV	
- resistance (3- or 2-wire)	0 ÷ 2500 Ω	
- remote data display (through the RS485 port or PRG, MODBUS-RTU)	-1999 ÷ 9999	
<b>Number of measurement inputs</b>	1	
<b>Response time for measurements (10 ÷ 90%)</b>	0,25 ÷ 3 s (programmable)	
<b>Resistance of leads (RTD, Ω)</b>	$R_d < 25 \Omega$ (for each line)	
<b>Resistance current (RTD, Ω)</b>	400 µA (Pt100, Ni100), 200 µA (remaining)	
<b>Processing errors (at 25°C ambient temperature):</b>		
- basic	- for RTD, mA, V,mV, Ω - for thermocouple	0,1 % of measuring range ±1 digit 0,2 % of measuring range ±1 digit
- additional for thermocouples		<2 °C (cold ends temperature)
- additional caused by ambient temperature changes		< 0,003 % of input range /°C
<b>Resolution of measured temperature</b>	0,1 °C	
<b>Communication interface</b>	- PRG programming link (no separation) for programmer AR955/GP set	- bitrate 2,4 ÷ 115,2 kb/s, - format 8N1 (8 data bit, 1 bit stop, no parity bit), - MODBUS-RTU protocol (SLAVE)
<b>7-segment LED display</b>	4 digits, height 10 mm, red, blue, green	
<b>Signaling of alarms, messages, and errors</b>	LED display	
<b>Power supply (Usup)</b>	20 ÷ 50 Vac/3VA, 20 ÷ 72 Vdc/3W	
<b>Rated operating conditions</b>	0 ÷ 50°C, <90 %RH (non-condensing)	
<b>Working environment</b>	air and neutral gases	
<b>Protection rating</b>	IP54 front, IP20 of the connections side	
<b>Weight</b>	~60g	
<b>Electromagnetic compatibility (EMC)</b>	- immunity: acc. to PN-EN 61000-6-2 - emission: acc. to PN-EN 61000-6-4	