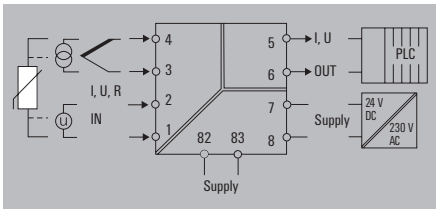
Universal measurement and signal converter

- Isolation and conversion of temperature signals and DC signals
- Configuration using FDT/DTM software
- Power supply via the mounting rail bus
- 3-way isolation

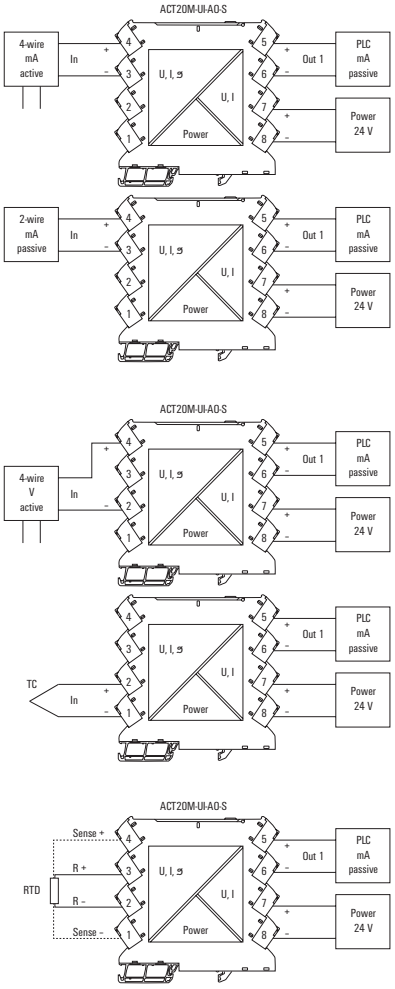
ACT20M-UI-AO-S





Technical data

Input	
Sensor	Thermocouples: B, E, J, K, L, LR, N, R, N, R, S, T, U, W3, W5, RTD: PT100, PT1000, Ni100, Ni1000, 2-/3-/4-wire
Potentiometer	10 Ω...10 kΩ
Resistance	10 Ω...10 kΩ
Input current	0...20 mA, 4...20mA
Input voltage	0(2)...10 V, 0(1)...5 V
Input resistance, voltage	> 10 MΩ
Voltage drop, current input	< 3 V
Sensor supply	> 15 V DC at 20 mA
Output	
Output current	adjustable, 0...20 mA, 4...20 mA
Output voltage	adjustable, 0(2)...10 V, 0(1)...5 V
Load impedance current	≤ 600 Ω, @ max 28mA
Load impedance voltage	≥ 10 kΩ
General data	
Configuration	With FDT/DTM software
Supply voltage	24 V DC ± 30 %
Ambient temperature	-25 °C...+70 °C
Accuracy	< 0.1 % of measuring range
Temperature coefficient	≤ 0.01 % / °C
Power consumption, typ.	400 mW
Power consumption, max.	1.2 W
Step response time	400 ms (10...90%) @ U/I, 1 s @ temp
Insulation coordination	
Insulation voltage	2.5 kV_{eff}
Rated voltage	300 V_{eff}
Pollution degree	2
Overvoltage category	II
Approvals	cULus; DETNORVER; FMEX; GL; GOSTME25; IECEXKEM; KEMAATEX



Dimensions		
Clamping range (nominal / min. / max.)	mm²	
Depth x width x height	mm	
Note		

Screw connection
2.5 / 0.5 / 2.5
114.3 / 6.1 / 112.5
Power supply optionally over the DIN mounting rail CH20M

Ordering data

	Type	Qty.	Order No.
Screw connection	ACT20M-UI-AO-S	1	1176030000

Note	

Accessories

Note	CBX200 USB configuration adapter - 8978580000 DIN mounting rail, see Accessories

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