CA
CO/142

Features

Inputs

Types of INPUTS	Measure range adjustable from:		Permanent overload	Intrinsic error	Input impedance
mA(1)	-2 to +22mA		±100mA	< ±0.1% of the MR	Max. drop 0.9V
mV(1)	-10 to +110mV		±1V		≥ 1MΩ
V	-0.1 to +1.1V		±50V		
	-1 to +11V				
	-30 to +300V		±300V		
Thermocouples(1) Standard IEC 581 J K B R S T E N L W W3 WRE5	°C -160/1200 -270/1370 200/1820 -50/1770 -50/1770 -270/410 -120/1000 0/1300 -150/910 1000/2300 0/2480 0/2300	°F -256/2192 -454/2498 392/3308 -58/3218 -58/3218 -454/770 -184/1832 -32/2372 -238/1670 1832/4172 32/4496 32/4172	-	<±0.1% (3) of the MR or 30µV typical (60µV max.)	≥ 1 MΩ
Pt100Ω sen- sor(1)(2) Standard IEC 751 (DIN 43760)	°C -200/850	°F -328/1562	- -	<±0.1% of the MR	Current 250µA
Ni 100 sensor (1)(2)	-60/260	-76/500	-		
Resistive sensors	Calibers 0-440 Ω(1)(2) and 0-10 kΩ		-	<±0.1% of the MR	Max. current 250µA
Potentiometer	from 100Ω to 10 kΩ		-		Max. voltage 100mV
2-wire sensor supply	24 Vdc ±15% with protection from short-circuits. 25 mA max.				
Special linearisation programming up to 20 points	On input: mV, V, mA. resistive sensor and potentiometer				
Extraction of the square root	On input mV, V or mA				

- (1) Sensor break detection:
mA input (if down scale ≥ 3,5mA)
Other inputs: a 12µA pulsed current allows the detection of line or sensor break.
- (2) Wiring possible in 2, 3 and 4 wire
Influence of the line resistance (0<Rl<25Ω) included in the announced intrinsic error.
- (3) CJC efficiency:
Internal CJC: ±2°C ±0.03°C/°C from -10°C to +50°C
CJC (option terminal) : ±1°C from -10°C to +50°C
- MR Measure range
Thermal drift <150ppm/°C

Outputs

Code		Types of OUTPUTS		Features
A	1 analog	Current active/passive	Voltage	Current: Direct or reversed 0-20mA Load impedance ≤ Lr 600Ω Voltage: Direct or reversed 0-10V Load impedance ≥ Lr 5KΩ
2A	2 analog isolated	Current active/passive	Voltage	Accuracy: 0.1% in relation to the display Ripple: 0.2% Response time in relation to the display: 40ms
R	2 change-over relays	2 setpoints per relay configurable over the whole MR. Hysteresis programmable from 0 to 100%. Time delay programm. from 0 to 999.9 sec. (8A/250 VAC on resistive load)		
R4	4 change-over relays			
N	RS485 digital communications Protocole MODBUS/JBUS (EIA RS485)			

Response time of the outputs:

(for a variation from 10 to 90% of the input signal)

Typical response time: 300 ms

Add 40 ms for the response time on the analog output, or 10ms for the response time on the relay outputs.

Galvanic isolation:

3.0kV-50Hz-1min. between Supply, Input, Analog output, Relay output and RS485.

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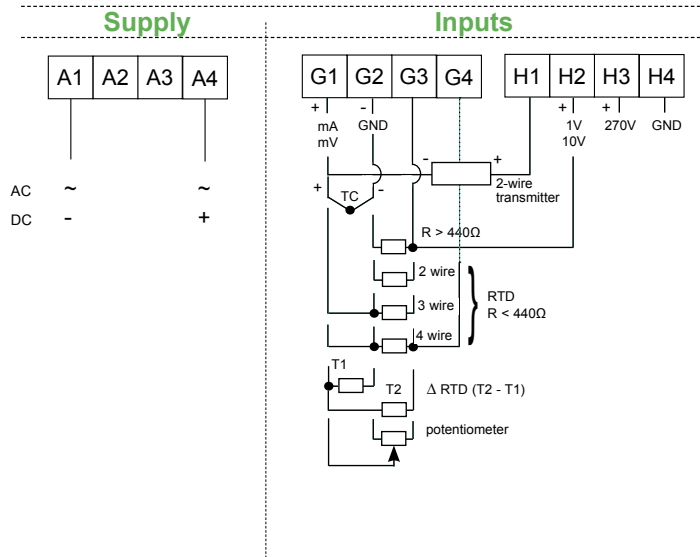
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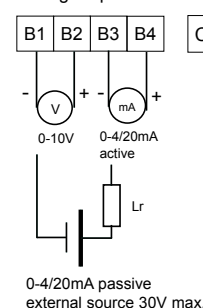
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Connectings

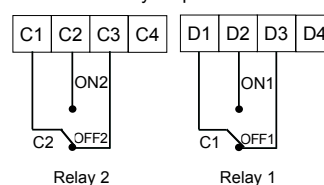


Outputs of the µCv 10 A/AR/2AR

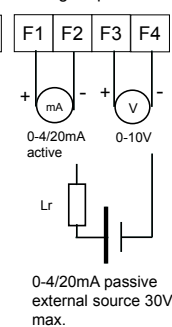
Analog output 1



Relay outputs

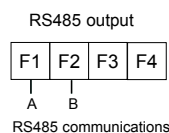


Analog output 2

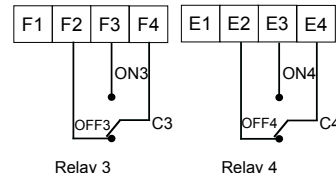


The voltage or current outputs are not independent. One output type only to be activated by programming (V or mA).

µCv10 N outputs



µCv10 AR4 outputs



Your representative