

Repeater / power supply

5104A

- 1- or 2-channel version
- 3- / 5-port 3.75 kVAC galvanic isolation
- Loop supply > 17.1 V
- 20 programmable measurement ranges
- Universal supply by AC or DC









Application

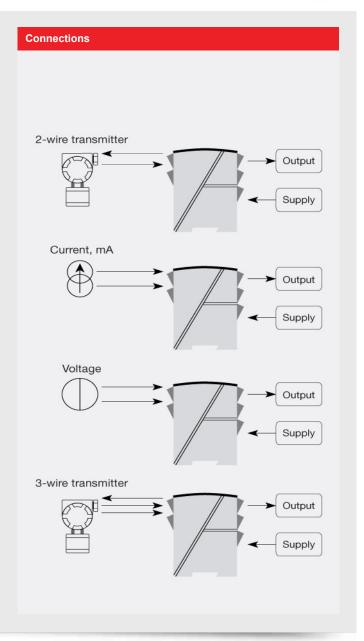
- · Power supply and signal isolator for 2-wire transmitters.
- · Signal isolator for analog current / voltage signals.
- 1:1 or signal conversion of analog current / voltage signals.

Technical characteristics

- · The 20 factory-calibrated measurement ranges in the 5104A can be selected by the internal DIP-switches without the need for recalibration. Special measurement ranges can be delivered.
- · PR5104A is based on microprocessor technology for gain and offset. The analog signal is transmitted at a response time of less than 25 ms.
- · Inputs, outputs, and supply are floating and galvanically separated.
- The output can be connected either as an active current / voltage transmitter or as a 2-wire transmitter.

Mounting / installation

· Mounted vertically or horizontally on a DIN rail. By way of the 2-channel version up to 84 channels per meter can be mounted.



Order:

Туре	Input		Output		Channels	
5104A	020 mA	: A	Special	: 0	Single	: A
	420 mA	: B	020 mA	: 1	Double	: B
	010 V	: E	420 mA	: 2		
	210 V	: F	01 V	: 4		
	Special	: X	0.21 V	: 5		
			010 V	: 6		
			210 V	: 7		

Environmental Conditions

Specifications range	-20°C to +60°C
Calibration temperature	2028°C
Relative humidity	< 95% RH (non-cond.)
Protection degree	IP20

Mechanical specifications

Dimensions (HxWxD)	109 x 23.5 x 130 mm
Weight approx	225 g
DIN rail type	DIN 46277
DIN rail type	1 x 2.5 mm ² stranded wire
Screw terminal torque	0.5 Nm

Common specifications

Sup	ply
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Isolation voltage

Response time

Response time (0...90%, 100...10%)...... < 25 ms

Auxiliary supplies

Input specifications

Common input specifications

Current input

Voltage input

Output specifications

Current output

Signal range	020 mA
Min. signal range	16 mA
Load (@ current output)	≤ 600 Ω
Load stability	≤0.01% of span / 100 Ω
Current limit	< 28 mΔ

Voltage output

Signal range	01 VDC / 010 VDC
Min. signal range	0.8 VDC / 8 VDC
Load (@ voltage output)	
	001/00

Max. external 2-wire supply	29 VDC
Effect of external 2-wire	
supply voltage variation	< 0.005% of span / V
*of span	= of the presently selected
	range

Observed authority requirements

EMC	2014/30/EU
LVD	2014/35/EU

Approvals

UL	UL 508
EAC	TR-CU 020/2011
DNV Marine	Stand, f. Certific, No. 2.4