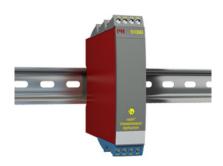


Distributed by: M.A. Selmon Company, Inc 4 Oxford Rd. Milford, CT 06460 203-377-3525





HART® transparent repeater

5106B

- 3- / 5-port 3.75 kVAC galvanic isolation
- Low response time
- 2-wire supply > 17 V in Ex / I.S. area
- 1- or 2-channel version
- Universal supply by AC or DC











Application

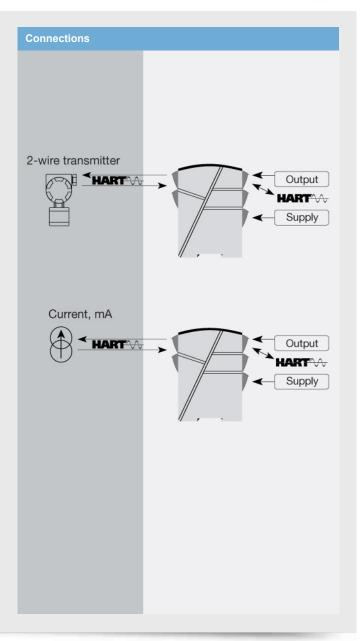
- Power supply and Ex / I.S. safety barrier with 2-way HART[®] communication for 2-wire transmitters installed in the hazardous area.
- Ex / I.S. safety barrier with 2-way HART® communication for supplied current transmitters installed in the hazardous area.
- · Signal isolator with low response time on analog current signals from the hazardous area.

Technical characteristics

- PR5106B primarily processes current signals of 4...20 mA.
- · PR5106B 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 transmitter or as a 2-wire transmitter.

Mounting / installation

- · Mounted vertically or horizontally on a DIN rail. As the devices can be mounted without distance between neighboring units, up to 84 channels can be mounted per meter.
- PR5106B is recommended as Ex / I.S. safety barrier for 5335D and 6335D.



Order:

Туре	Input		Output		Channel	s
5106B	420 mA	: В	420 mA 204 mA	: 2 : 9	Single Double	: A : B

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	245 g
DIN rail type	DIN 46277
Wire size	DIN 46277 1 x 2.5 mm ² stranded wire
Screw terminal torque	

Common specifications

Sup	ply
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Isolation voltage

Response time

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

Auxiliary supplies

 Max. power consumption.
 ≤ 3 W (2 channels)

 Internal consumption.
 ≤ 2 W (2 channels)

 Signal / noise ratio.
 Min. 60 dB (0...100 kHz)

 Accuracy.
 Better than 0.1% of selected range

Input specifications

Current input

Measurement range	420 mA
Min. measurement range (span)	
Input resistance: Supplied unit	Nom 10 O
Input resistance: Non-supplied	140111. 10 12
unit	Rshunt = ∞, Vdrop < 4 \

Output specifications

Current output

Signal range	420 mA
Min. signal range	
Load (max.)	20 mA/600 Ω/12 VDC
Load stability	≤0.01% of span / 100 Ω
Current limit	≤ 28 mA

2-wire 420 mA output: Signal	
range	420 mA
Max. external 2-wire supply	29 VDC
Effect of external 2 wire	

Approvals

EMC	2004/108/EC
LVD	
PELV/SELV	IEC 364-4-41 and EN 60742
ATEX 94/9/EC	
	G [EEx ia] IIC
UL	UL 913, UL 508
EAC	TR-CU 020/2011
EAC Ex TR-CU 012/2011	RU C-DK.GB08.V.00410