



2-wire level transmitter

5343B

- Potentiometer or Ohmic input
- Programmable sensor error value
- High measurement accuracy
- Unique process calibration function
- Programmable via standard PC





















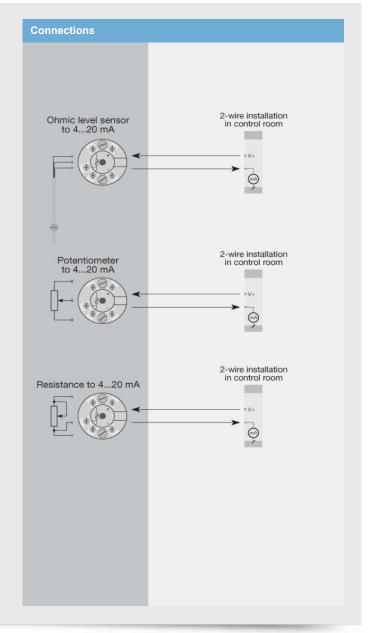
- · Conversion of resistance variation to standard analog current signals, e.g. from Ohmic level sensors or valve positions.
- · User-defined linearization function can be activated.

Technical characteristics

- · Within a few seconds the user can program PR5343B to measure within the defined Ohmic values.
- · Continuous check of vital stored data for safety reasons.
- · The transmitter is protected against polarity reversal.
- PR5343B is configured to the current task by way of a PC, the PReset software and the communications interface Loop Link.
- · The PRelevel configuration tool included in the PReset software has been developed specifically for the configuration of level applications. Among other things, it contains a function for "on line" measurement of input span as well as a linearization function for volume linear output from horizontal cylindrical tanks.

Mounting / installation

- · For DIN form B sensor head or DIN rail mounting with a special fitting.
- NB: As I.S. / Ex barrier for 5343B we recommend 5104B, 5114B or 5116B.



Type 5343B

Environmental Conditions

Specifications range	-40°C to +85°C
Calibration temperature	2028°C
Relative humidity	< 95% RH (non-cond.)
Protection degree (encl./terminal)	IP68 / IP00

Mechanical specifications

Dimensions	Ø 44 x 20.2 mm
Weight approx	50 g
Wire size	1 x 1.5 mm ² stranded wire
Screw terminal torque	0.4 Nm
Vibration	IEC 60068-2-6 : 2007
Vibration: 225 Hz	±1.6 mm
Vibration: 25100 Hz	±4 q

Common specifications

Common specifications	
Supply voltage	8.030 VDC
Response time (programmable)	0.3360 s
Internal consumption	25 mW0.8 W
Voltage drop	
Warm-up time	5 min.
Programming	Loop Link
Signal / noise ratio	Min. 60 dB
Accuracy	Better than 0.1% of selected
	range
Signal dynamics, input	19 bit
Signal dynamics, output	16 bit
Effect of supply voltage change	
EMC immunity influence	< ±0.5% of span

Input specifications

Comm	ıon	input	specif	ficati	ons

Linear resistance input

Measurement range / min. range (span)	0100 kΩ / 1 kΩ
Cable resistance per wire (max.)	
Sensor current	> 25 μA, < 120 μA
Effect of sensor cable resistance (3-wire)	< 0.002 Ω / Ω
Sensor error detection, lin.	Yes
Min. measurement range	1 kΩ

Output specifications

Current output	4 20 mA
Signal range	16 mA
Load (@ current output)	
Sensor error indicationNAMUR NE 43 Upscale/Downscale	Programmable 3.523 mA
Common output specifications Updating time	135 ms
*of span	= of the presently selected range

Observed authority requirements

EMC	2014/30/EU
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Approvals

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ATEX 2014/34/EU	KEMA 03ATEX1538
FM	2D5A7
IECEx	DEK 13.0036X
INMETRO	DEKRA 13.0002 X
EAC	TR-CU 020/2011
EAC Ex TR-CU 012/2011	RU C-DK.GB08.V.00410
DNV Marine	Stand. f. Certific. No. 2.4
GI	V1-7-2