



2-wire level transmitter

5343B

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























Application

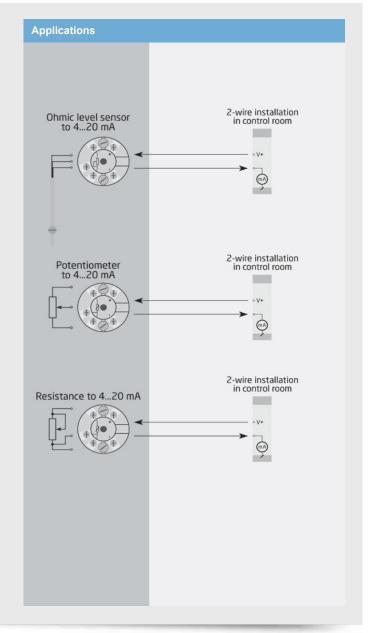
- · Conversion of resistance variation to standard analog current signals, e.g. from Ohmic level sensors or valve positions.
- · User-defined linearization function can be activated.

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

Operating temperature	-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 q
Wire size	1 x 1.5 mm ² stranded wire
Screw terminal torque	0.4 Nm
Vibration	IEC 60068-2-6
225 Hz	±1.6 mm
25100 Hz	±4 g

Common specifications

Supply Supply voltage	
Response time (programmable)	0.3360 s
Voltage drop	8.0 VDC

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Voltage drop	8.0 VDC
Warm-up time	5 min.
Programming	Loop Link
Signal / noise ratio	Min. 60 dB
Accuracy	Better than 0.1% of sel. range
Signal dynamics, input	19 bit
Signal dynamics, output	16 bit
Effect of supply voltage change	< 0.005% of span / VDC
EMC immunity influence	< ±0.5% of span

Input specifications

Common input specifications		
Max. offset	50% of selected max.	value

Linear resistance input Measurement range / min. range (span)....... 0...100 k Ω / 1 k Ω

Output specifications

Current output	
Signal range	420 mA
Min. signal range	16 mA
Load (@ current output)	≤ (Vsupply - 8) / $0.023 [\Omega]$
Load stability	\leq 0.01% of span / 100 Ω
Sensor error indication	Programmable 3.523 m/
NAMUR NE43 Upscale/Downscale	23 mA / 3.5 mA
Common output specifications	105
Updating time	135 ms

of span..... = of the presently selected

Observed authority requirements

EMC	2014/30/EU
EAC	TR-CU 020/2011

Approvals

ATEX	KEMA 03ATEX1538
FM	FM17US0013X
IECEx	DEK 13.0036X
INMETRO	DEKRA 16.0014 X
EAC Ex	RU C-DK.HA65.B.00355/19
DNV-GL Marine	Stand, f. Certific, No. 2.4
DNV-GL Marine	