



#### 2-wire level transmitter

### 5343A

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















#### **Application**

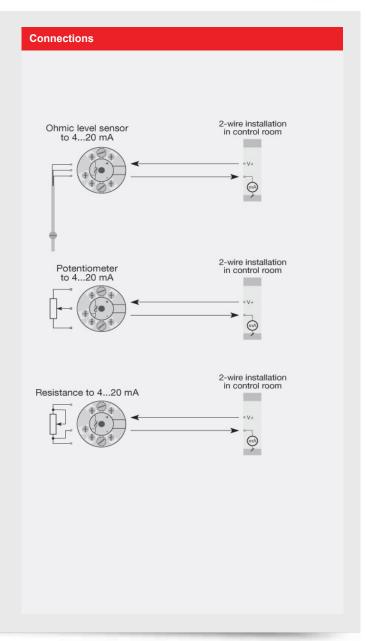
- · Conversion of resistance variation to standard analog current signals, e.g. from Ohmic level sensors or valve positions.
- · User-defined linearization function can be activated.

#### **Technical characteristics**

- · Within a few seconds the user can program PR5343A to measure within the defined Ohmic values.
- · Continuous check of vital stored data for safety reasons.
- · The transmitter is protected against polarity reversal.
- PR5343A 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.



Туре 5343A

## **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 q
Wire size	1 x 1.5 mm <sup>2</sup> stranded wire
Screw terminal torque	
Vibration	IEC 60068-2-6 : 2007
Vibration: 225 Hz	±1.6 mm
Vibration: 25100 Hz	±4 g

Common specifications		
Supply voltage	8.035 VDC	
Response time (programmable)	0.3360 s	
Internal consumption.  Voltage drop	8.0 VDC 5 min. Loop Link Min. 60 dB	
Signal dynamics, input	19 bit 16 bit < 0.005% of span / VDC	

# 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.)	100 Ω
Sensor current	> 25 µA, < 120 µ/
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 Signal range	16 mA ≤ (Vsupply - 8) / 0.023 $[\Omega]$ ≤0.01% of span / 100 $\Omega$ Programmable 3.523 mA
Common output specifications Updating time	135 ms
*of span	= of the presently selected range
Approvals General approvals	

or spari	range
Approvals	
General approvals	
EMC	EN 61326-1
EAC TR-CU 020/2011	EN 61326-1
Ex/I.S.	
ATEX 2004/108/EC	KEMA 10ATEX0004 X
IECEx	DEK 13.0036X
INMETRO	DEKRA 13.0002 X
Marine approval	
DNV Marine	Stand. f. Certific. No. 2.4
GL	V1-7-2