OPERATION MANUAL

Industrial pressure transmitter with voltage or current output



Description



Technical Data

Industrial pressure transmitter			
Measuring range	0+100 bar, 6 types		
Bursting pressure	See table		
Residual error linearity			
/ hysteresis	< ±0,2 % FS		
Temperature	TCO < ±0,015 % FS / K		
coefficient	TCG < ±0,010 % FS / K		
Operating			
temperature range	-20+80 °C		
Sensor material	Ceramics, Al2O3		
Housing material	Aluminium AlMgPbCu, blue anodised		
Seal	Viton		
Pressure connection	1/4" female thread		
Dimensions	30 x 30 x 89 mm		
Connection	4-pole industrial connection, DIN 43650		
Protection	IP65		
Model 420 mA			
Output signal	420 mA, Two-Wire		
Permissible load	Ra[Ω]=(Uv[V]-10V)/0,02 A		
Model 010 V			
Output signal	010 V, Three-Wire		
Auxiliary power	1230 V DC / 5 mA		

Characteristic features

- Product variants from vacuum to 100 bar FS
- For measurement of relative pressure
- Output standard signal of 0...10 V or 4...20 mA
- Temperature compensated
- Robust, medium resistant models
- Simple assembly
- Water and oil resistant
- Enclosure IP65

Typical areas of application

- Food technology
- **Pneumatics**
- High pressure
- Fuel pumps
- Gases
- Fuel cells

Features

The pressure probe of series DRTR convert the measured values in the form of calibrated and temperature compensated standard signal of 0...10 V or 4...20 mA. The delivery spectrum covers a wide pressure range from vacuum to 100 bar FS with 12 variants of different measuring ranges (see table).

Through a precise calibration at 7 measuring points, an outstanding accuracy and a very low temperature residual error is achieved.

The probes are ideally suitable for measurement of static and dynamic relative pressure in liquids or gases. Typical areas of application are in the field of pneumatics, hydraulics and other industrial applications.

The robust probe housing with enclosure type IP 67 is made of anodised aluminium and is provided with a 1/4" internal thread for connection to the medium.

The electric connection is done with an industrial plug as per DIN 43650. The model with current signal is connected through a current loop. The model with voltage output requires an auxiliary supply.

Besides the standard variants, customer specific models for absolute pressure with other type of calibration, ratio metric voltage output and also with digital output signal are also available. Further information on OEM-models can be obtained on request!

In general the B+B pressure sensors are medium resistant. However we recommend to prove the media compatibility with critical mediums such as electroplating applications (iron trichloride) or oils with undefined additives .

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Available Models

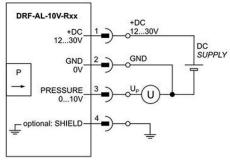
Measuring range	Burst pressure	Order no. current output	Order no. voltage output	
-10 bar	4 bar	DRTR-AL-20MA-RV0	DRTR-AL-10V-RV0	
-11 bar	4 bar	RTR-AL-20MA-RV1	DRTR-AL-10V-RV1	
01,6 bar	4 bar	DRTR-AL-20MA-R1B6	DRTR-AL-10V-R1B6	
02,5 bar	6,25 bar	DRTR-AL-20MA-R2B5	DRTR-AL-10V-R2B	
04 bar	10 bar	DRTR-AL-20MA-R4B	DRTR-AL-10V-R4B	
06 bar	15 bar	DRTR-AL-20MA-R6B	DRTR-AL-10V-R6B	
010 bar	25 bar	DRTR-AL-20MA-R10B	DRTR-AL-10V-R10B	
016 bar	40 bar	DRTR-AL-20MA-R16B	DRTR-AL-10V-R16B	
025 bar	62,5 bar	DRTR-AL-20MA-R25B	DRTR-AL-10V-R25B	
040 bar	100 bar	DRTR-AL-20MA-R40B	DRTR-AL-10V-R40B	
060 bar	150 bar	DRTR-AL-20MA-R60	DRTR-AL-10V-R60B	
0100 bar	175 bar	DRTR-AL-20MA-R100B	DRTR-AL-10V-R100B	
Relativdruckmessung, 0 bar entspricht Umgebungsdruck!				

Connection layout

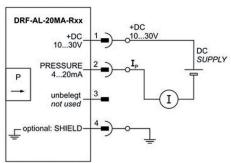
Pin	Voltage output	Current output
1	+DC 1230 V	+DC 1030 V
2	GND 0 V	PRESSURE 420 mA
3	U PRESSURE 010 V	***
4	SHIELD	SHIELD



Connection diagram



Voltage output 0...10 V Current output 4...20 mAA



Dimensions



With 1/4" manometer connection

Attention

Please avoid extreme mechanical and inappropriate exposure.

The device/product is not suitable for potential explosive areas and medical-technical applications.

For further information, visit our website: www.bb-sensors.com

