OPERATION MANUAL

Industrial pressure transmitter with voltage or current output - DRTR-ED-XX-R



Description



Technical data

| -1+100 bar, 12 Types |
|--|
| See table |
| < ±0.2 % FS |
| TCO < ±0.015 % FS / K TCG < ±0.010 % FS / K |
| -20+80 °C |
| Ceramic, Al ₂ O ₃ |
| Stainless steel 1.4305 |
| Viton |
| 1/4" external threads |
| 30 x 30 x 89 mm |
| 4-pin Industrial plug, DIN 43650 |
| IP65 |
| 2004/108/EG |
| EN 61000-6-3:2011 |
| EN 61000-6-1:2007 |
| |
| 420 mA, 2-wire |
| Ra[Ω]=(Uv[V]-10V) 0.02 A |
| |
| 010 V, 3-wire |
| 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, media-resistant models
- · Simple assembly
- · Water and oil resistant
- Enclosure IP65

Areas of application

- Pneumatics
- Hydraulics
- · Industrial applications
- · Machines and equipment manufacture
- · Automatic control systems

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 IP65 is made of stainless steel and is provided with a 1/4" external 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!



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Connection layout

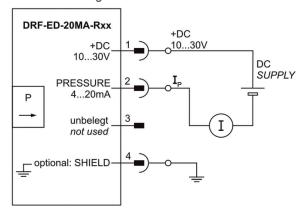
| Pin | Voltage output | Current output |
|-----|-----------------|-------------------|
| 1 | +DC 1230 V | +DC 1030 V |
| 2 | GND 0 V | I PRESSURE 420 mA |
| 3 | U PRESSURE 010V | |
| 4 | SHIELD | SHIELD |



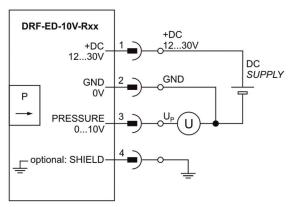
Dimensions



Connection diagramm



Current output 4...20 mA



Voltage output 0...10 V

Delivery spectrum

| Measuring range | Bursting pressure | Ordering No. for current output | Ordering No. for voltage output |
|----------------------|--------------------------|-------------------------------------|---------------------------------|
| -10 bar | 4 bar | DRTR-ED-20MA-RV0 | DRTR-ED-10V-RV0 |
| -11 bar | 4 bar | DRTR-ED-20MA-RV1 | DRTR-ED-10V-RV1 |
| 01,6 bar | 4 bar | DRTR-ED-20MA-R1B6 | DRTR-ED-10V-R1B6 |
| 02,5 bar | 6,25 bar | DRTR-ED-20MA-R2B5 | DRTR-ED-10V-R2B5 |
| 04 bar | 10 bar | DRTR-ED-20MA-R4B | DRTR-ED-10V-R4B |
| 06 bar | 15 bar | DRTR-ED-20MA-R6B | DRTR-ED-10V-R6B |
| 010 bar | 25 bar | DRTR-ED-20MA-R10B | DRTR-ED-10V-R10B |
| 016 bar | 40 bar | DRTR-ED-20MA-R16B | DRTR-ED-10V-R16B |
| 025 bar | 62,5 bar | DRTR-ED-20MA-R25B | DRTR-ED-10V-R25B |
| 040 bar | 100 bar | DRTR-ED-20MA-R40B | DRTR-ED-10V-R40B |
| 060 bar | 150 bar | DRTR-ED-20MA-R60B | DRTR-ED-10V-R60B |
| 0100 bar | 175 bar | DRTR-ED-20MA-R100B | DRTR-ED-10V-R100B |
| The relative pressur | re measurement, 0 bar co | prresponds to atmospheric pressure! | |

For more information visit our website please: www.bb-sensors.com

