



Pressure Transmitters Type DRT

General Features

This series of pressure transmitters has been designed to cover a broad range of standard industrial applications. Compact design and robust construction make these instruments universally suitable for all pressure measurement applications.

Function

The pressure transmitters can operate from non-stabilized 10 to 30 V DC power supplies and provide standardized 4 – 20 mA output signals (two-wire system).

Design

All wetted parts are made of CrNi steel and completely welded to exclude possible conflict of internal sealing material with the pressure medium. The robust case is also made of CrNi steel and provides protection to IP 65.

Technical Data

Sensing principle

Thin-film strain gauge

Pressure ranges [bar]

1 1.6 2.5 4 6 10 16 25 40 60

Overpressure safety [bar]

2 3.2 5 8 12 20 32 50 80 120

Burst pressure [bar]

4 6 10 16 25 40 50 100 150 200

Pressure reference

Relative pressure

Pressure connection

BSP ½"A to DIN 16288

Materials

Wetted parts: CrNi steel (DIN no. 1.4571)

Case: CrNi steel (DIN no. 1.4571)

Internal transmitting fluid

Silicone oil

Power supply

10 to 30 V DC

Output signal

4 to 20 mA, 2-wire system

Max. load

$R_A [\text{ohm}] = (U_B [\text{V}] - 10 \text{ V}) / 0.02 \text{ A}$

Accuracy

≤ 0.5 % of final value

[0.25] (limit point calibration)

Hysteresis

≤ 0.1 % of final value

Repeatability

≤ 0.05 % of final value

Admissible temp. of medium

–30 °C to 100 °C

Ambient temperature

–10 °C to 80 °C

Storage temperature

–40 °C to 100 °C

Compensated temp. range

0 °C to 80 °C

Temperature influence (TC)

Zero ≤ 0.2 % of final value/10 K

Pressure range ≤ 0.2 % of final value/10K

Wiring

4-pin L-plug to DIN 43650

Protection

EN 60529 / IEC 529 IP 65

Wiring protection

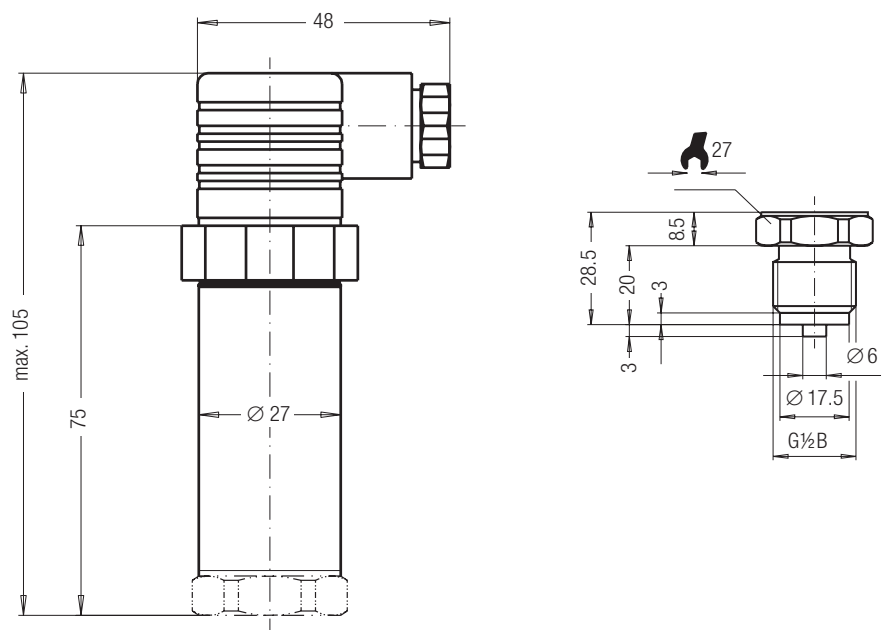
Protected against polarity crossing, overvoltage and short circuiting

Weight

Approx. 0.2 kg

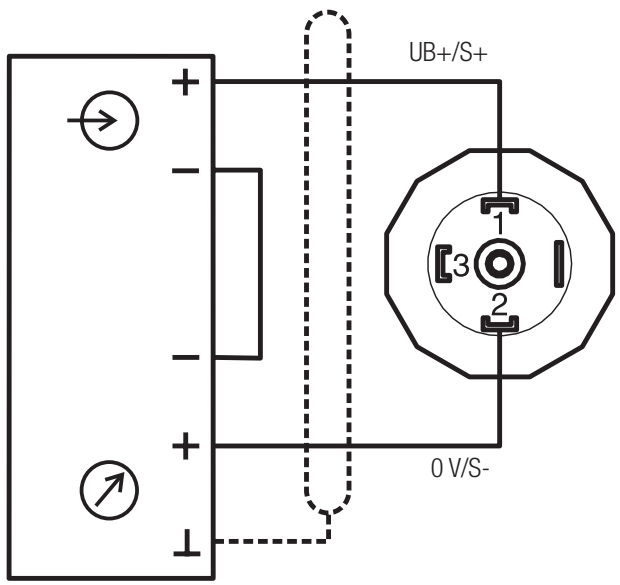
Pressure Transmitters Type
DRT

Dimensions



Wiring Diagram

**2-wire system
DIN 43650 plug**



Please Note:

For steam applications a syphon and a pressure gauge isolating valve must be installed.
Use screened four-core cable, core size 0.8 mm².
Max. cable length 250 m.

Order and Enquiry Specification

GESTRA Pressure Transmitter Type DRT
Pressure range
Output signal 4 – 20 mA

Additional Equipment

■ Plug-on unit for local readout

Supply in accordance with our general terms of business.

GESTRA GmbH

Münchener Straße 77, 28215 Bremen, Germany
Tel. +49 421 3503-0, Fax +49 421 3503-393
E-mail info@de.gestra.com, Web www.gestra.com

