



## 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

$R_A$  [ohm] =  $(U_b [V] - 10 V) / 0.02 A$

#### 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

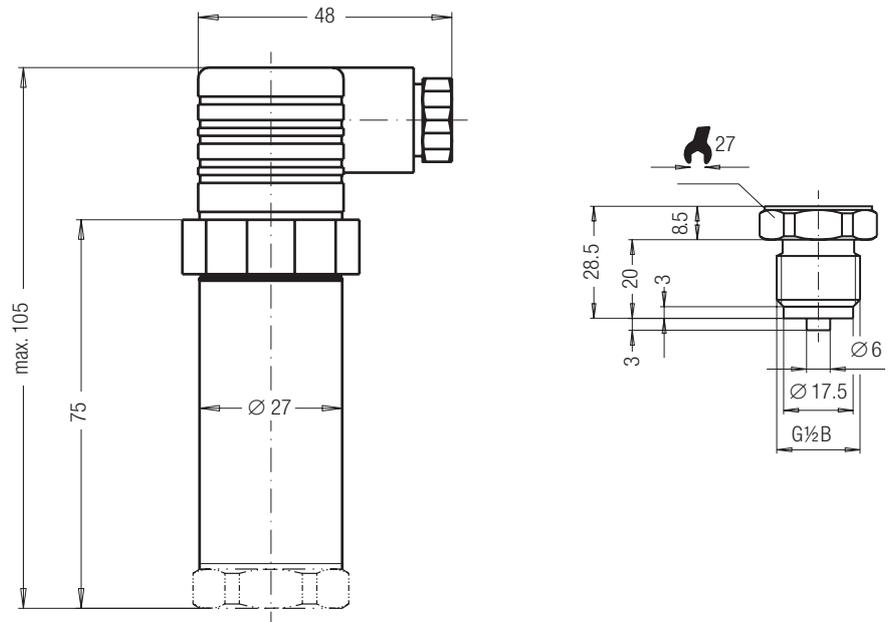
Protected against polarity crossing, overvoltage and short circuiting

#### Weight

Approx. 0.2 kg

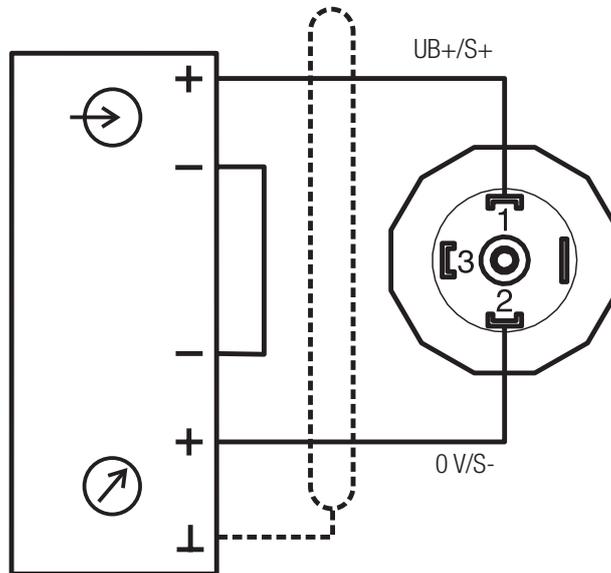
Pressure Transmitters Type  
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**Dimensions**



**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 mm<sup>2</sup>.  
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.

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