

Pressure Transmitter Series IS30/IS31



- Measuring ranges from -1 ..1.000 bar
- Output signal 4..20 mA
- Devices for Ex areas

Characteristics

Suitable for applications in potentially explosive atmospheres. These pressure transmitters are designed for highest industrial requirements and have ATEX approvals.

Technical data

Power supply

Supply voltage	: 10..30 V DC (U+)
Power consumption Pi	: 800 mW
Process temperature	: -20..+80 °C
Option 05	: -40..+150 °C only IS30, ≤ 400 bar
	: -20..+150 °C only IS31, ≤ 600 bar

Ambient temperature	: -20..+80 °C
Storage temperature	: -20..+80 °C
CE-conformity	
Pressure equipment directive	: 2014/68/EU
EMC-directive	
Emissions	: 2014/30/EU, EN 61326-1:2013; EN 61326-2-3:2013 (group 1, class B)
Safety integrity	: Sil 2; IEC 61508-2:2010; IEC61511-1:2003+ Corr.: 2004
ATEX directive	: 2014/34/EU; EN60079-0:2012 + A11:2013; II 1/2G Ex ia II C T4/T5/T6 Ga/Gb

Output

Current	: 4..20 mA, 2-wire
Max. Load R _A	: R _A ≤ (U+ - 10V) ÷ 0,02A
Accuracy	: 0,5 %, optional 0,25 %

Material

Process connection	: CrNi-steel
Housing	: CrNi-steel
Sealing (IS31, only)	: NBR

Transmissions medium

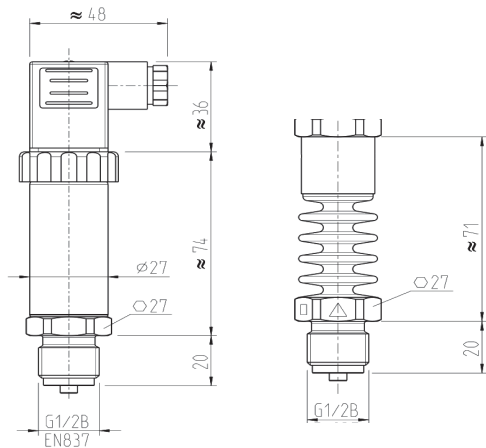
Measuring range up to 25 bar	: Synthetic oil
Measuring range >25bar	: dry measuring cell

Diaphragm

: IS31 = flush
: IS30 = standard pressure port

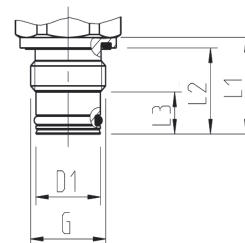
Electrical connection	: 4-pole plug EN 175301-803/A ; PG 9
Protection class	: IP65

Dimensions



IS30

IS30 with option 05



IS31

D1 = 18 mm

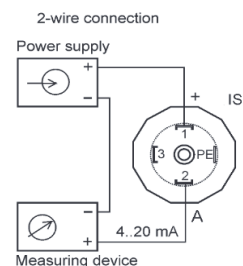
L1 = 23 mm

L2 = 20,5 mm

L3 = 10 mm

G = G1/2 B

Connection diagram



Ordering code

IS3 1. - 2. - 3. - 4. - 5.

1. Model	
0	standard pressure port, G ½ B, -1..0 / 0..1.000 bar
1	flush diaphragm , G ½ B, -1..0 / 0..600 bar
2. Output	
2	4..20 mA, 2-wire (10..30 V DC)
3. Options	
00	without option
02	accuracy 0,25 % (M.-ranges ≥ 0,25 bar)
03	absolute measurement (M.-ranges ≤ 25 bar)
04	custom measuring range
05	process temperature -40(-20)..+150 °C
5. Measuring ranges [bar]	
	-1/ 0,1/ 0,16/ 0,25/ 0,4/ 0,6/ 1/ 1,6/ 2,5/ 4/ 6/ 10/ 16/ 25/ 40/ 60/ 100/ 160/ 250/ 400/ 600/ 1000/