



Specifications for transmitter

Output signal: 4/20 mA, 2 wires

Power supply: 8/24 Vdc

Accuracy: $\pm 0,5\%$ f.s including linearity, hysteresis, repeatability

Working temperature: $-10/+80\text{ }^{\circ}\text{C}$

Compensated temperature range: $0/50\text{ }^{\circ}\text{C}$

Error: 1% typical, max 2% in the range $0/50\text{ }^{\circ}\text{C}$

Shock: 20g sinusoidal, 11 m/sec

Insulation: $\pm 10\text{M ohms}$

Load in Ohm: U- 8V; 0,02 A

Electrical connection: DIN43650

Options

- Case diameter 150mm
- Intrinsically Safe version EExiaIICT4/T6
- Flush mounting back-flange
- Front flange for panel mounting
- Degreasing for use on Oxygen
- Internal dampener
- Mounting with diaphragm seal (see related datasheet)

Available certification

- 2.1 certificate of conformity
- 3.1 material certificate
- Test certificate for indication accuracy

How to order

Please specify: model, dial size, range, connection options, certificates

Example: TR100, 100mm, 0/10 bar 1/2" BSPM

Introduction

The TRANSPRESS 100 pressure gauge series is designed for applications requiring both local pressure indication and remote transmission of a 4–20 mA signal for process recording or control.

The instrument combines two independent measuring elements: a Bourdon tube pressure gauge and a piezoresistive sensor. This dual-measuring arrangement helps maintain reliable pressure indication, even if one measuring element is out of calibration.

Specifications for gauge

Diameter: 100 mm

Case and ring: st. st. 304, bayonet type ring

Window: Safety glass

Movement: st. st. reinforced

Dial: Aluminium, white, Scaling black

Pointer: black steel with micrometric adjustment

Blow out: neoprene, upper

Sensing element: Bourdon tube type, with "C" form for pressure ≤ 60 bar, helical wound for pressure ≤ 60 bar

Sensing element material: AISI 316L

Connection material: AISI 316L

Connection dimension: 1/2" NPTM or BSPM

Mounting:

Type A bottom connection, direct mounting

Type D back connection, direct mounting

Ranges: see table at page 2

Overpressure:

+30% F.S. for range up to 60 bar

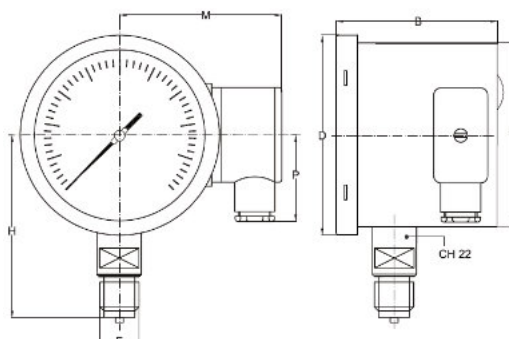
+15% F.S. for ranges from 100 to 600 bar

Accuracy: class 1 % at $20\text{ }^{\circ}\text{C}$

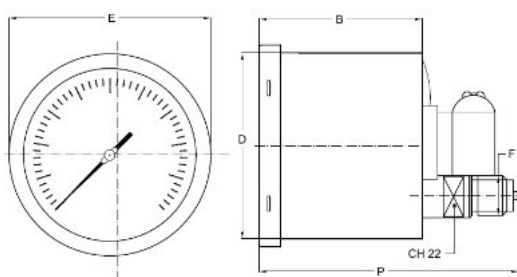
Pressure														
bar	0/0,6	0/1	0/1,6	0/2,5	0/4	0/6	0/10	0/16	0/25	0/40	0/60	0/100	0/160	0/250
psi		0/15	0/30	0/60	0/100	1/160	0/200	0/300	0/400	0/600	0/800	0/1000	0/1500	0/2000
bar	0/315	0/400	0/600	0/1000	0/1600									
psi	0/5000	0/6000	0/10000	0/15000	0/20000									

Vacuum and compound								
bar	-1/0	-1/+0,6	-1/+1,5	-1/3	-1/+5	-1/+9	-1/+15	-1/+24
psi	-100/0		-100/+150	-100/+300	-100/+500	-100/+900	-100/+1500	-100/+2400

Other ranges and double scales available on request



Type A: Direct mounting, bottom connection



Type D: Direct mounting, back connection

Model	b	D	E	H	M	p	F	Weight kg dry	Weight kg gly filled
TR100A	60	101	115	87	90	50	½" BSP/NPT	0.9	1.2
TR100D	60	101	115	87	90	87	½" BSP/NPT	0.9	1.2