

Pressure transmitter for high pressure series ETX.405

St. steel housing & wetted part
with thin-film technology

General features

- Measuring range 0...1.6 bar to 0...1000 bar
- Temperature range of media -40 °C to 85 °C
- Silicon-on-sapphire technology
- High overload, high degree capacity
- Protection class IP65
- Compact and rugged model in stainless steel

Application area

- Industrial automatics
- Oil and gas industries
- Hydraulic / Pneumatic
- Pumping stations / Compressors
- Heat metering

General specification

Pressure ranges

0...1.6 bar to 0...1000 bar

Accuracy

Main error within temp. range

from 5...50 °C ±0.25%FS

from -40...85 °C ±0.5%FS

Total error within temp. range

from 5...50 °C ±0.7%FS

Electrical parameter

Output signal

4...20mA

0...5V

Load resistance, kΩ

4...20mA ≤ (supply-9V)/0.02A

0...5V 0...10 kΩ

Insulation resistance at room temp.

20MΩ

Electrical insulation strength (AC voltage)

100 V

Supply voltage

9...30 V

Mechanical parameter

Vibration resistance

Frequency range from 10 to 150 Hz

Acceleration amplitude 50 m/s²



Pressure transmitter series ETX.405

Materials of wetted parts

stainless steel and titanium alloy

Pressure media

gases, liquids and their mixtures not aggressive to the titanium alloy.

air, sea water, 5% vitriol acid, chlorine water, chloride solutions, oils, acetylene etc.

Operation conditions

IP level IP65

Electrical connection

GDM connector, P2 connector

DIN 43650 A, DIN 43650 C

Process connection

G1/4"

M12 x 1.25

M14 x 1.5

M20 x 1.5



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Ordering Information

Model code

ETX.405

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Output signal

O1 : 4...20mA, 2-wire system
O5 : 0...5V, 3-wire system

Electrical connection

D : DIN 43650
P : P2 connector

Option

Refer to option table

Pressure range

Refer to pressure range table

Pressure connection

G4 : PF1/4"
N4 : NPT 1/4"
M1 : M20 x 1.5
M2 : M14 x 1.5
M3 : M12 x 1.25

Pressure range code, unit bar

Code	Range	Overload	Burst
R26	0...1.6	-1...4.8	6.4
R28	0...2.5	-1...7.5	10
R30	0...4	-1...12	16
R32	0...6	-1...18	24
R33	0...10	-1...30	40
R35	0...16	-1...48	64
R37	0...25	-1...75	100
R39	0...40	-1...120	160
R41	0...60	-1...180	240
R43	0...100	-1...300	400
R45	0...160	-1...480	640
R47	0...250	-1...750	1000
R50	0...400	-1...1000	1600
R53	0...600	-1...1200	1500
R55	0...1000	-1...1500	2000
RYY	Others		

Option code

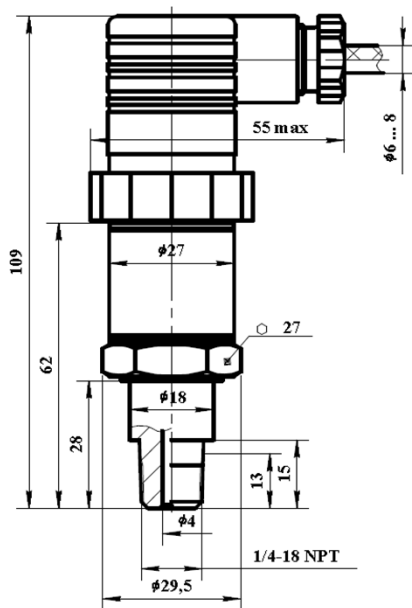
Code	Description	Code	Description
CD2	Cooling device up to 200 °C	MC	Manufacture calibration certificate
CD3	Cooling device up to 300 °C	KC	KOLAS Ilac-MRA calibration certificate
TP	St. stell tag plate, 60 x 20 x 0.5t		

How to Order

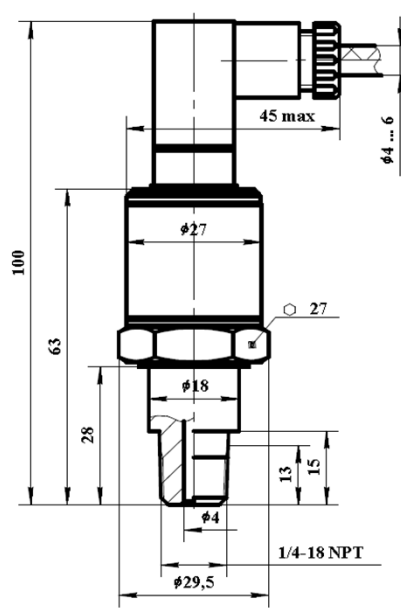
ETX.405.O1DG4R47

ETX.405, ±0.5%FS, 4...20mA, DIN 43650 A, G 1/4", 0...250 bar

Outline drawing

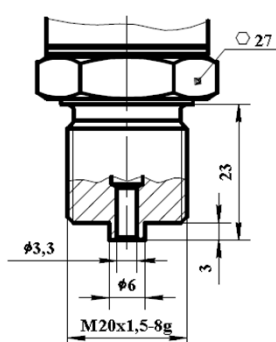
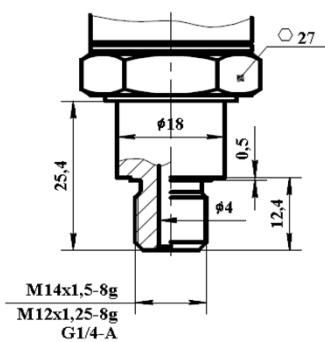


GDM connector version

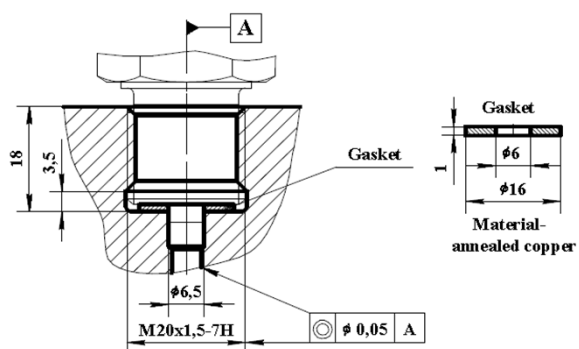
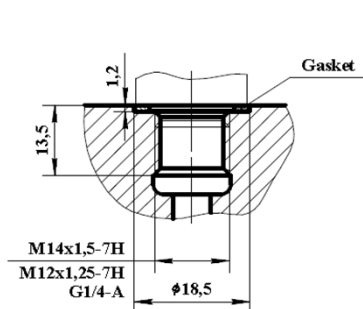


P2 connector version

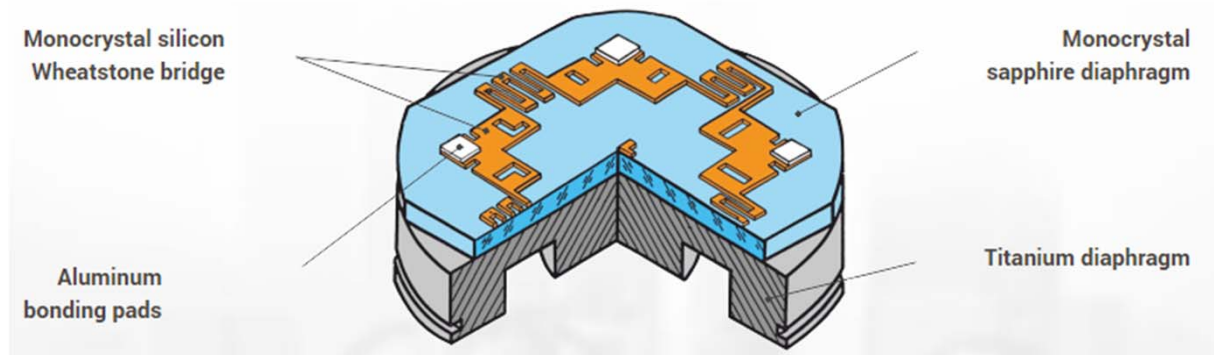
Thread design



Mounting diagrams



Design features of pressure sensors



- Sensitive element of pressure sensors is a double-layer sapphire-titanium diaphragm with monocrystal silicon resistance strain gauges.
- Monocrystal sapphire diaphragm is a perfect elastic element that due to connection with titanium acquires the best quality as to the deformation level, and preserves its elastic properties up to 400°C
- strain gauges elements are manufactured in groups by solid-state microelectronic methods and provided high quality and good repeatability of the output parameters.
- Exceptional insulating properties and radiation resistance of sapphire enable to use the sensitive element within temperature range from -200 to +350 °C under the effect of high electromagnetic interferences and radiation.
- Monocrystal silicon resistance strain gauges are automatically connected with sapphired (heteroepitaxy method) and provide almost no hysteresis or fatigue effects.

Electrical connection diagram

