



RELIABLE INSTRUMENTATION
FOR PROCESS CONTROL

RUSSIAN MANUFACTURER
OF PROCESS CONTROL INSTRUMENTS



AIR-10H, AIR-10SH

Pressure transducers for harsh operating environments



AIR-10SH — NG14



**Corrosion-resistant pressure transmitters
AIR-10H and AIR-10SH for harsh operating environments
with HART protocol**

All types of pressure

Lower pressure range limit	0.4 kPa
Upper pressure range limit	100 MPa
Accuracy	0.1 %
Temperature error	0.08 %/10 °C
Range scaling	1:40
Number of ranges	9
Areas of use options	Ex, Exd
Operating temperature	-60 to 70 °C
	Tropical -25 to 80 °C



AIR-10SH — NG15



AIR-10H — NG06



PTFE

Gold

316L, hastelloy, tantal, monel

Ceramic piezoresistive measuring element

- Overload capacity — 500 % of maximum scale value
- Long term stability — 0,075 %/3 year
- Corrosion-resistant membranes: 316L, hastelloy, tantal, monel, PTFE, gold



Compact housing NG-14
from stainless steel



Compact housing NG-06
with module LED indication



Two-section case NG-15
from stainless steel 316L
with LED indicator

- Convenient access to the terminals switching
- Screw terminal block



NG-14



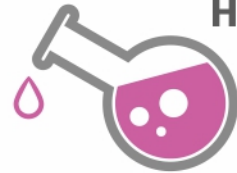
NG-15

Terminal block

- Vibration-proof screw terminals
- Microwitches for preventing illegal access



H₂S



H₂SO₄
HCl



NaOH

Corrosion proof

Aggressive gases (H₂S), acids (H₂SO₄, HCl), caustic sodium (NaOH)



NG-15

Indicators

- LED indicator operable at -60 °C
- LED indication module with optoelektronik relay
- Discrete indicator rotation — 180°

Keypad on indicator panel

Zero and range adjustment

Output signals (analog) — 4 to 20 mA/HART

Engineering pressure units: kPa, MPa, kg/cm², Bar, mBar, mm Hg, mm H₂O, psi

EMC immunity

- Radiated radio-frequency EM field
- Conducted radio-frequency EM field
- Electrostatic discharge
- Electromagnetic compatibility (EMC) Group — IV-A

Vibration resistance

- V2 group (150 Hz, 2 g, 0.35 mm)
- G2 group (2000 Hz, 10 g, 0.75 mm)



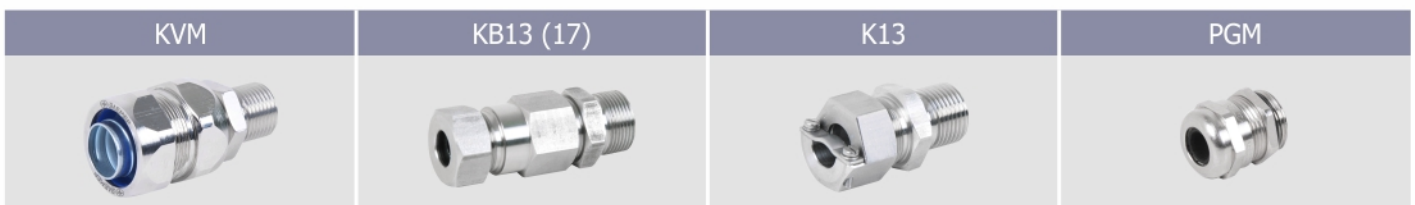
AIR-10H, AIR-10SH

Pressure transducers for harsh operating environments

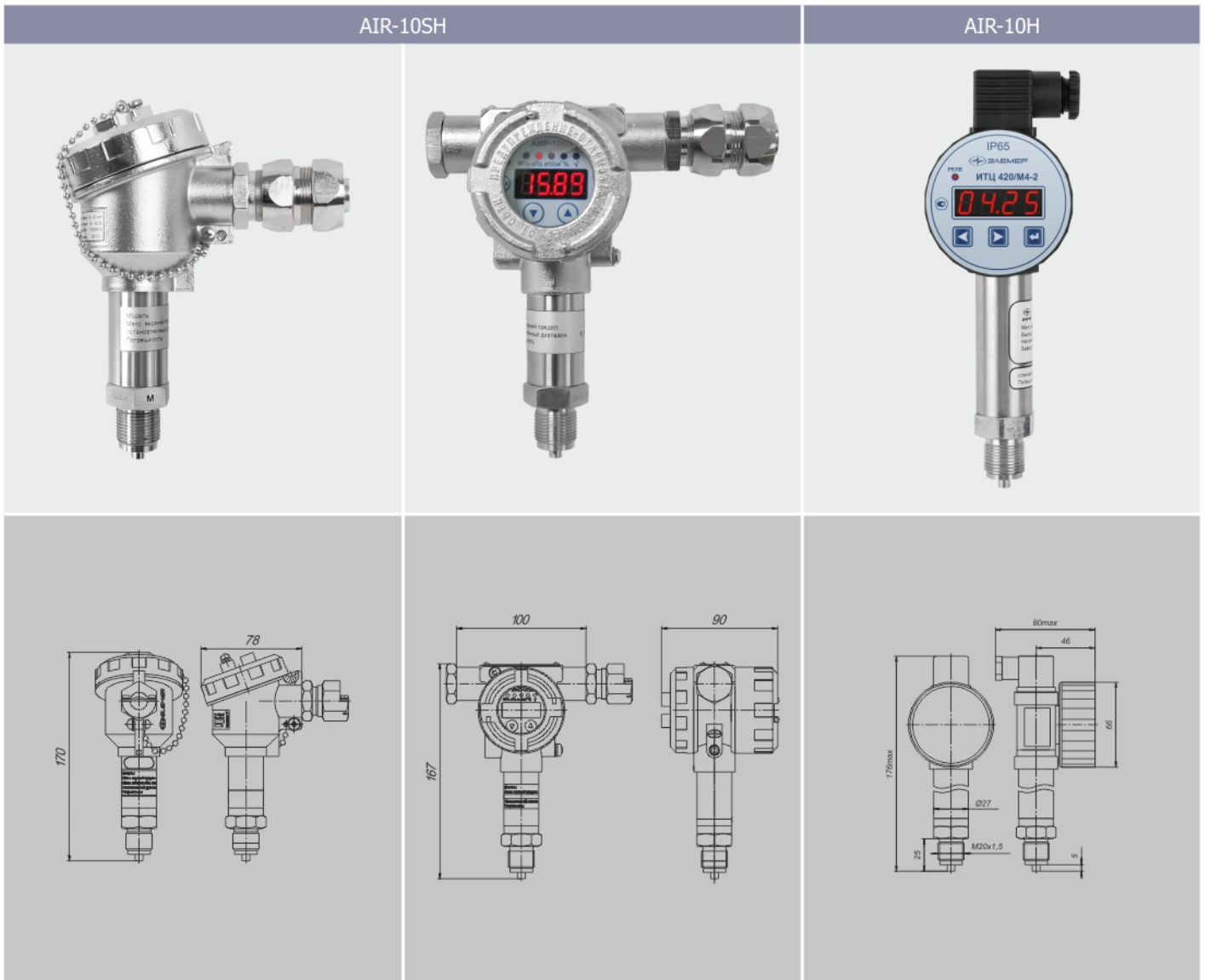


Technical features		AIR-10SH	AIR-10H
Full scale values	Absolute pressure (AP)	2.5 kPa to 2.5 MPa	
	Manometric pressure (MP)	0.25 kPa to 100 MPa	
	Manometric negative pressure (MNP)	±3 kPa to (-0.1 to 2.4) MPa	
	Differential pressure (DP)	0.063 kPa to 16 MPa	
	Hydrostatic pressure (HP)	1 kPa to 250 kPa	
Scaling range	1:40	1:25	
Output signal	4 to 20 mA/HART		
Configuring	Keypad, HART protocol		
Square-rooting function	Under the HART protocol		
Error	From ±0.1 %		
Climatic version	-40 to 70 °C, T3 (-25 to 70 °C), -60 to 70 °C		
Dust and moisture protection	IP65, IP67		
Versions	General industrial, Ex (0ExiallBT6 X), Exd (1ExdIICT6 X)		
Indication	4-digit LED indicator keypad 180° step rotation	LED indication module with optoelektronik relay	
Sensors	Silicone, piezoresistive		
Wetted materials	Stainless steel 316 L, hastelloy C, tantal, monel, PTFE, gold-plated		
Module material switching	Stainless steel 316 L	Plastic	
Electromagnetic compatibility (EMC)	Group IV-A		
Warranty period	5 years		

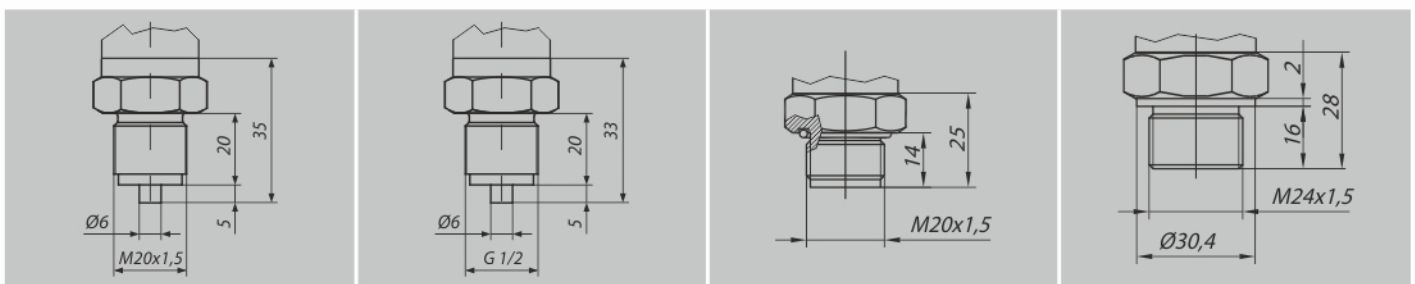
Electric connection



Dimensions



Process connection



HART communication tools





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