



OEM Ability!

RUSSIAN MANUFACTURER
OF PROCESS CONTROL INSTRUMENTS



ELEMER-AIR-30M
Pressure transmitters with **HART** and **FOUNDATION** fieldbus



Smart pressure transmitters ELEMER-AIR-30M with HART-Protocol and with integrated alarm relay

Types of measured pressure

Type of pressure	Full scale values
Absolute pressure (AP)	1 kPa to 16 MPa
Manometric pressure (MP)	0.025 kPa to 100 MPa
Manometric negative pressure (MNP)	±0.03 kPa to (-0.1 MPa to 2.4 MPa)
Differential pressure (DP)	0.025 kPa to 16 MPa
Hydrostatic pressure (HP)	1 kPa to 250 kPa

Excellent metrological performance

Parameter	Value
Scaling range	1:100
Number of recalibratable ranges	11
Accuracy	±0.075 %
Long-term stability	±0.075 % / 3 years
Complementary temperature error	±0.03 % / 10 °C
Impact of static pressure (zero error)	±0.007 % / 1 MPa
Impact of static pressure (span error)	±0.015 % / 1 MPa

Versions

Versions	Code
Explosion-proof "intrinsically safe electrical circuit"	Ex (0ExialBT6 X)
Explosion-proof "explosion-proof casing"	Exd (1ExdIICT6 X)
Explosion-proof "intrinsically safe electrical circuit" and "Explosion-proof casing"	Exdia (1Exd [ia]IIC T6 Gb X)
Nuclear-industry grade (enhanced reliability)	A
Oxygen applications	K

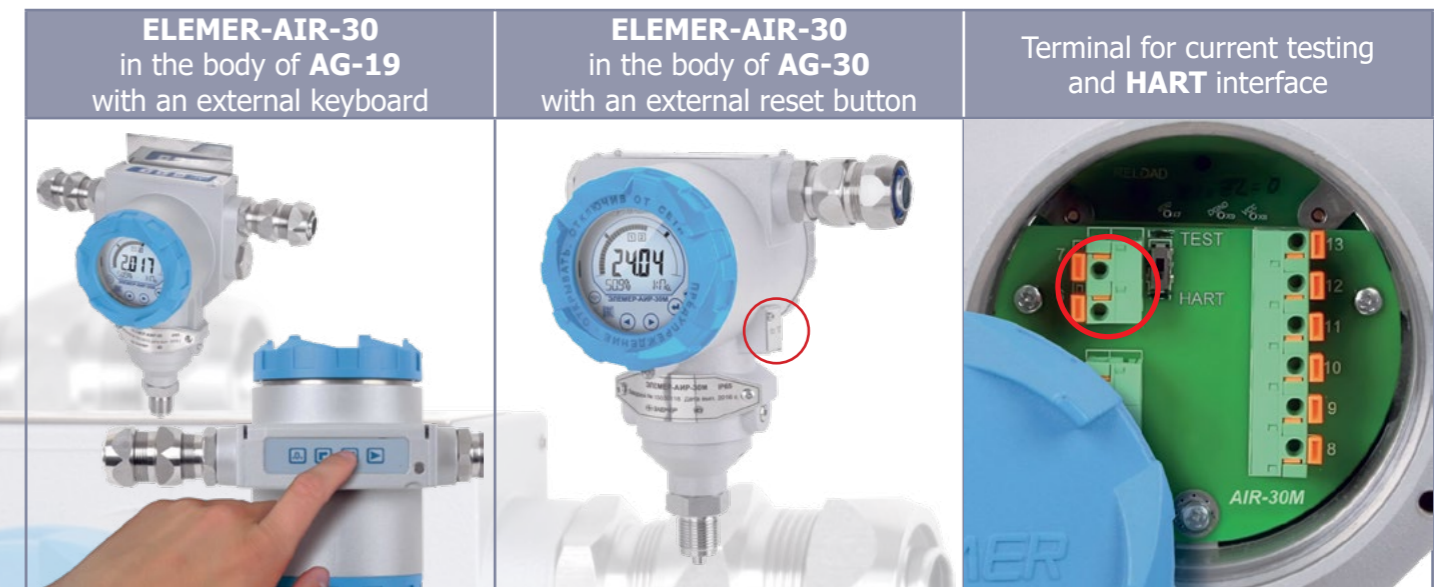


Features

- Output signals — 4 to 20 mA; 4 to 20 mA/0 to 5 mA (optional); 8 to 3.2 V; 0.5 to 4.5 V; 1 to 5 V; HART, FOUNDATION fieldbus
- DD (Device Description), FDT/DTM component for extensive diagnostics and process automation
- 2 alarm devices — optorelay (~250 V × 100 mA); electromechanical relay (~250 V × 3 A)
- Device menu (English) — for parameter configuration and calibration
- Internal and external hermetic keyboard
- Functioning with a HART modem and HART communication device
- Reliable password protection

High measurement stability sensors

- Piezoresistive sensors using silicone-on-ceramics technology
- Overload capacity — 1500 % of maximum scale value
- Corrosion-resistant membranes: 316L, hastelloy, tantal, monel, PTFE, gold



Rotation 90°, 180°, 270°

Reporting control panel




- Digital-graphic LCD display with bright bias lighting
- Three-button keypad to enter the device's menu
- Displaying the measurement units: kPa, MPa; kgf/cm², %
- Discrete indicator rotation — 90°, 180°, 270°

Operation in industrial interference conditions





- Electromagnetic compatibility (EMC): radiofrequency, conductive, electrostatic, nanosecond, microsecond interference
- High resistance to lightning discharges
- **Safety Integrity Level — SIL2**



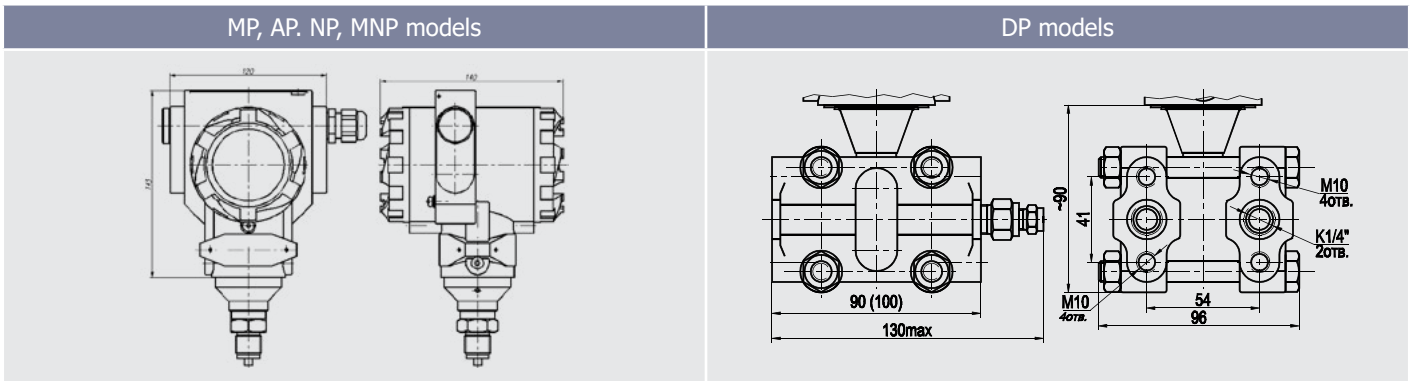
Technical features of ELEMER-AIR-30M

MP, AP, NP, MNP models		DP models	HP flanged models
			
Full scale values	Absolute pressure (AP)	1 kPa to 16 MPa	
	Manometric pressure (MP)	0.025 kPa to 100 MPa	
	Manometric negative pressure (MNP)	± 0.03 kPa to $(-0.1$ to $2.4)$ MPa	
	Differential pressure (DP)	0.025 kPa to 16 MPa	
	Hydrostatic pressure (HP)	1 kPa to 250 kPa	
Scaling range		1:100	
Number of rescalable ranges		11	
Output signal		4 to 20 mA; 4 to 20 mA / 0 to 5 mA (optional); 8 to 3.2 V; 0.5 to 4.5 V; 1 to 5 V; HART, FOUNDATION fieldbus	
Configuring		Keypad (internal or external), HART protocol	
Square-rooting function		Configured by the user	
Accuracy		From ± 0.075 %	
Climatic version		-55 to $+80$ °C	
Dust and moisture protection		IP65, IP67	
Versions		General industrial, Ex (ExiaIICT6 X), Exd (IExdIICT6 X), Exdia (Ex \pm Exd), for oxygen applications, A (nuclear industry grade (enhanced reliability))	
Indication		Liquid-crystal display (LCD) with backlighting and graphic scale (2 \times 39 segments)	
Indicator rotation		Discrete, with increments of 90°, 180°, 270°	
Body rotation		$\pm 135^\circ$	
Sensors		Piezoresistive; corrosion-resistant membranes (316L, hastelloy, tantal, monel, PTFE, gold)	
Overload capability from the maximum scale value (MP, AP, NP, MNP)		350 to 1500 %	
Recalibration interval		5 years	
Warranty period		5 years	

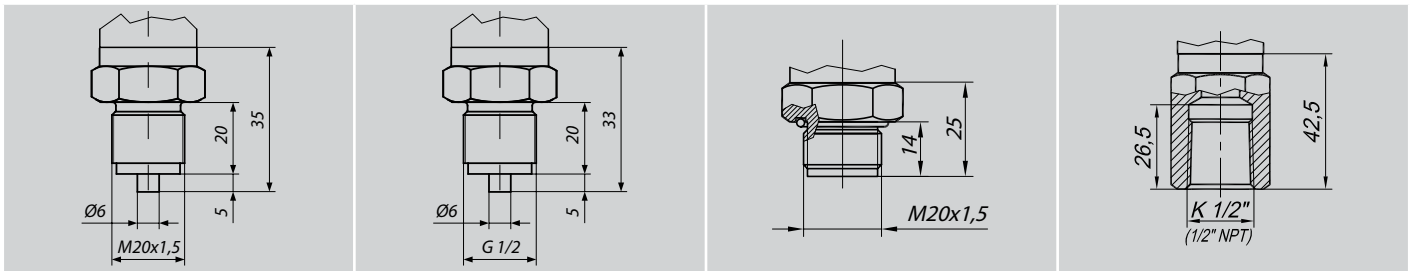
Electric connection

KVM	KB13 (17)	K13	PGM
			

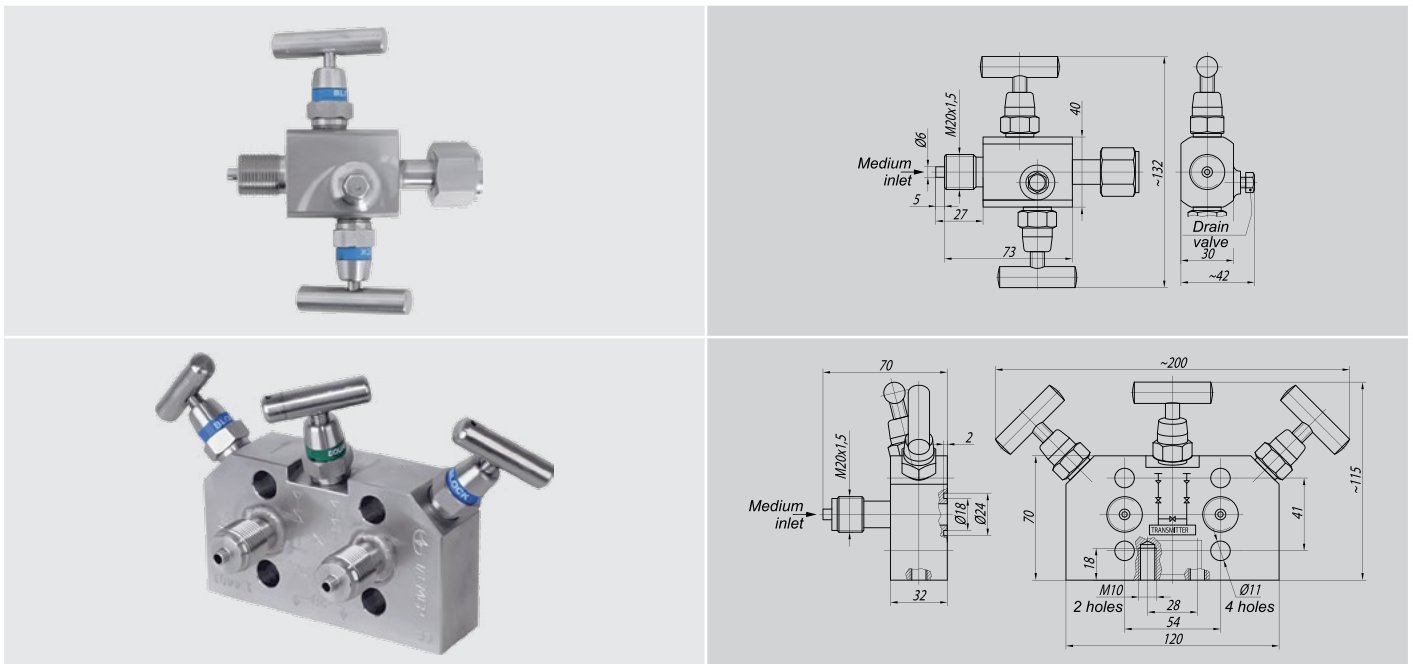
Dimensions



Process connection



Pressure testing with a valve assembly (check valves)



HART communication means





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