



OEM Ability!

RUSSIAN MANUFACTURER
OF PROCESS CONTROL INSTRUMENTS



ELEMER-PKD-260-Ex

Pressure calibrator

ELEMER-PKD-260-Ex

Pressure calibrator — Current loop calibrator — HART-Communicator



Application fields:

- Pressure gauges and transmitters calibration
- Configuration and tuning pressure transmitters by HART protocol
- Test and adjustment of pneumatic lines
- Cable lines testing and process automation system calibration

General features

- Built-in and external reference pressure meters
- High-precision meter and source module I, U
- High-precision meter and source module I
- Built-in 160 bar pneumatic pump with auxiliary electric inflator
- Intrinsically safe version
- Unique operating temperature -20...50 °C
- Built-in fully-functional mini PC with resistive touchscreen
- **HART-communicator** with built-in line resistor
- High capacity rechargeable battery
- Durable metal case
- PC software



Functional features

- Pumping and adjusting gauge and absolute pressure
- Pressure measuring by built-in or replaceable external reference pressure meters
- Current loop and voltage meter for pressure transmitters
- Current loop generator for control systems calibration
- Advanced HART ability for pressure transmitters
- Relay testing



Simply operating

A colour touch screen with intuitive control ensures maximum simplicity of operation.

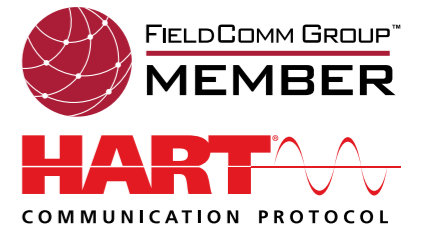


HART-communicator

Pressure transmitter configuration

Automatic adjustment of the current loop of pressure transmitter using a calibrator for measuring high accuracy current

Automatic adjustment of the sensor pressure transmitter using a high accuracy pressure measurement



Communication abilities

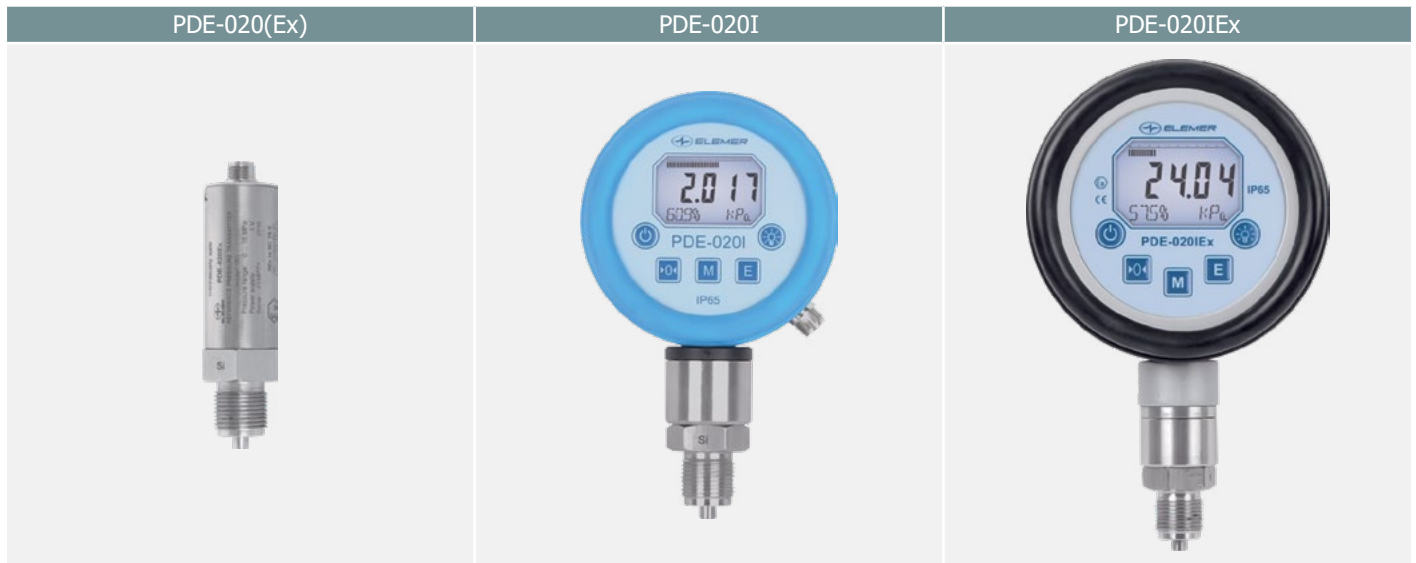
- USB and Ethernet interfaces for PC communication
- Software for calibrator control and calibration records generation
- Copy data to USB flash drive

Calibration of pressure meters and relays

ELEMER-PKD-260-Ex measures tested meter loop current, scales measured data to pressure value and uses reference reading to calculate accuracy of a tested meter. Relay test is under way at the same time. Measured data, calculated accuracy and relay state are recorded into a memory.

PDE-020(Ex), PDE-020I(Ex)

External reference pressure meters



PDE Models

Model	Pressure measured	Pressure range	Max pressure	Order code
010	Absolute	0...10 kPa	150 kPa	B, C
030	Absolute	0...120 kPa	300 kPa	A0, A, B, C
040	Absolute	0...250 kPa	1 MPa	A0, A, B, C
050	Absolute	0...600 kPa	2 MPa	A0, A, B, C
060	Absolute	0...2,5 MPa	6 MPa	A0, A, B, C
070	Absolute	0...6 MPa	16 MPa	A0, A, B, C
080	Absolute	0...16 MPa	25 MPa	A0, A, B, C
100	Manometric	0...2,5 kPa	7,5 kPa	B, C
110	Manometric	0...6,3 kPa	100 kPa	A, B, C
120	Manometric	0...16 kPa	100 kPa	A0, A, B, C
120E	Manometric	0...40 kPa	200 kPa	A0, A, B, C
130	Manometric	0...100 kPa	300 kPa	A0, A, B, C
140	Manometric	0...250 kPa	1 MPa	A0, A, B, C
150	Manometric	0...600 kPa	1,6 MPa	A0, A, B, C
160	Manometric	0...2,5 MPa	6 MPa	A0, A, B, C
170	Manometric	0...6,0 MPa	16 MPa	A0, A, B, C
180	Manometric	0...16 MPa	25 MPa	A0, A, B, C
190	Manometric	0...60 MPa	100 MPa	A0, A, B, C
190E	Manometric	0...100 MPa	120 MPa	A0, A, B, C
310	Manometric negative pressure	-10...10 kPa	100 kPa	A, B, C
320	Manometric negative pressure	-40...40 kPa	200 kPa	A0, A, B, C
340	Manometric negative pressure	-100...160 kPa	1 MPa	A0, A, B, C
350	Manometric negative pressure	-100...600 kPa	1,6 MPa	A0, A, B, C

Basic accuracy

Order code	Range	Accuracy, δ
A0	from 0 to 50 % FS	± 0.01 % FS
	from 50 to 100 % FS	± 0.02 % of measured value
A	from 0 to 33 % FS	± 0.01 % FS
	from 33 to 100 % FS	± 0.03 % of measured value
B	from 0 to 33 % FS	± 0.017 % FS
	from 33 to 100 % FS	± 0.05 % of measured value
C	from 0 to 33 % FS	± 0.05 % of measured value
	from 33 to 100 % FS	± 0.1 % of measured value



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