

MINING ► PRESSURE

PEMEX-E

DESCRIPTION



The PEMEX-E is a robust and safe pressure meter for general mining applications.

The various versions of the device are used to measure relative and absolute pressures in liquid and gaseous media.

The mounting position is arbitrary and with its compact dimensions the pressure meter can be mounted and put into operation even in difficult installation locations.

The device is completely encapsulated except for the electrical connection compartment and is therefore maintenance-free.

Versions available:

- PEMEX-E*G*
Evaluation unit and transducer combined in a single housing
- PEMEX-E*A*
Evaluation unit with remote transducer DMU
- PEMEX-E*V*
Evaluation unit with extended transducer
- PEMEX-E*B*
Evaluation unit with hydrostatic transducer (well probe)

Easy on-site operation and parameterization (PEMEX-E*)

- Measuring range:
0...40 mbar / 0...600 bar
- Measuring uncertainty:
 - Maximum ± 1 % of end value
 - Typical ± 0.5 % of end value
- Process connection
 - G $\frac{1}{2}$
 - G $1\frac{1}{4}$
 - Socket nipple DN10 (DIN 20043)
 - Pipe or vessel flange
- Protection (according to EN 60529):
 - IP65
 - IP68 (hydrostatic transducer)
- Power supply:
 - PEMEX-E**L*: 8...12.5 V DC
 - PEMEX-E**H*: 10...18.5 V DC
- Signal outputs:
Maximum two frequency outputs
5...15 Hz or limit
- Electrical connection:
 - Terminals and cable gland
 - Connector (optional):
 - PROMOS BN 4160
 - Machaczek ME2A10
 - Souriau series 845 size 2
 - Hydrostar SKK24
 - Becker module with terminals
- Material:
Stainless steel
- Weight:
Approx. 2 kg (standard type)
- Approval:
ATEX

A complete description of all device features can be found in the corresponding operating manual ba022000a1.

MINING ► PRESSURE

PEMEX-E

ORDER CODE

10 Electrical connection	K Terminals and cable gland P PROMOS connector type BN 4160 M Machaczek connector type ME2A10 S Souriau connector type 845, size 2 H Hydrostar connector type SKK24 B Becker module with terminals Y Special version, to be specified	40 Type of diaphragm	C Ceramic D Thinfilm Y Special version, to be specified
20 Version	G Standard V Extension *4 A1 Remote version with Harting connector *1,5 A2 Remote version with Machaczek connector *1 A3 Remote version with Hydrostar connector *1 A4 Remote version with PROMOS connector *1 A5 Remote version with cable gland B Hydrostatic transducer 9 Special version, to be specified	50 Type of transducer	F Flush-mounted I Internal S Socket nipple Y Special version, to be specified
30 Power supply	L 8...12.5 V DC H 10...18.5 V DC Y Special version, to be specified	60 Pressure measuring range	— Measuring ranges according to the table Y Special version, to be specified
		70 Length of connection cable *2	— Length [m] Y Special version, to be specified
		80 Special version *3	S Special version, to be specified

Complete order code	10	20	30	40	50	60	70	80
PEMEX-E								

*1 The connection cable (max. 90 m) is not part of the package and has to be ordered separately!

*2 Only specify if ordering remote version with cable gland (**A5**, max. 90 m) or hydrostatic version (**B**, max. 500 m)!

*3 Only necessary with deviations from order code pos. **10** to **70**!

*4 Length according to customer

*5 With straight or angled couplings available!

PEMEX-E
FEATURES
Available measuring ranges

with thinfilm transducer			with ceramic transducer		
measuring range	overrange limit	code	measuring range	overrange limit	code
0 .. 400 mbar	1.6 bar	400m	0 .. 40 mbar	-0.3 / 4 bar	040m
0 .. 600 mbar	2.4 bar	600m	0 .. 60 mbar	-0.3 / 4 bar	060m
0 .. 1 bar	4 bar	001b	0 .. 100 mbar	-0.3 / 4 bar	100m
-1 .. +1 bar	8 bar	-1+1b	0 .. 160 mbar	-0.6 / 5 bar	160m
-1 .. +5 bar	24 bar	-1+5b	0 .. 250 mbar	6 bar	250m
0 .. 1.6 bar	6.4 bar	01b6	0 .. 400 mbar	6 bar	400m
0 .. 2.5 bar	10 bar	02b5	0 .. 600 mbar	10 bar	600m
0 .. 4 bar	16 bar	004b	0 .. 1 bar	10 bar	001b
0 .. 6 bar	24 bar	006b	-1 .. +1 bar	10 bar	-1+1b
0 .. 10 bar	40 bar	010b	-1 .. +5 bar	25 bar	-1+5b
0 .. 16 bar	64 bar	016b	0 .. 1.6 bar	18 bar	01b6
0 .. 25 bar	100 bar	025b	0 .. 2.5 bar	18 bar	02b5
0 .. 40 bar	160 bar	040b	0 .. 4 bar	25 bar	004b
0 .. 60 bar	240 bar	060b	0 .. 6 bar	40 bar	006b
0 .. 100 bar	400 bar	100b	0 .. 10 bar	40 bar	010b
0 .. 160 bar	600 bar	160b	0 .. 16 bar	40 bar	016b
0 .. 250 bar	600 bar	250b	0 .. 25 bar	40 bar	025b
0 .. 400 bar	600 bar	400b	0 .. 40 bar	60 bar	040b
0 .. 600 bar	800 bar	600b	0 .. 60 bar	105 bar	060b

*Standard measuring ranges of the hydrostatic transducer: 040m .. 001b
 Other measuring ranges or higher overrange limits are optionally available!*

PEMEX-E

DIMENSIONS

