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ESI - PR3110EX - ATEX PRESSURE SENSOR

PR3110EX00.1AC
4-20mA, 0..100 mbar, G1/2, DIN, Ex



- ATEX and IECEx certified
- Designed for operation in zone 0, zone 20 and M1 mining
- Wide choice of low and high pressure ranges
- NACE corrosion resistant materials

PRODUCT DESCRIPTION

Robustly constructed from stainless steel the PR3110EX range incorporates the latest silicon strain gauge technology together with a custom IC amplifier offering excellent stability and accuracy over a long service life.
Electrical connection is via a detachable DIN connector allowing easy access to zero and span adjustment. Standard pressure connection is 1/2” BSP, but other options are available. Pressure ranges are available from 0- 100 mbar to 0- 900 mbar. Suitable for use with low pressure fluid and gas applications.
The PR3110EX is intended for installation and operation in zone 0, gas group IIC, temperature class T4 and zone 20 dust and M1 mining. ATEX and IECEx approval and protection is by intrinsic safety when used with a safety or isolation barrier.

TECHNICAL DATA

Ambient temperature	-20..85°C
Approvals	CE, DNV, IEC
ATEX approved	Yes
Electrical connection	DIN A 43650
EMC	EN61000-6-2, EN61000-6-4
EX approvals	Ex I M 1 Ex ia I Ma, Ex II 1 G Ex ia IIC T4 Ga, Ex II 1 D Ex ia IIIC T135 °C Da
Linearity	≤±0.3% BSFL
Material of wetted parts	NBR, Stainless steel 316
Media temperature	-20..85°C
Output	4-20 mA
Overpressure protection	0.6 bar
Pressure range max	0.1 bar

Pressure range min	0 bar
Pressure reference	Gauge
Process connection	G1/2
Sensor technology	Isolated Piezoresistive Silicon
Storage temperature	5..40°C
Supply voltage	13-36 V DC

