



ESI - PR3100 - INDUSTRIAL PRESSURE SENSOR

PR3100EXV001AC
4-20mA, -1..0 bar, G1/2, DIN, Ex

- Suitable for the majority of industrial applications
- Reliable pressure measurement
- Long service life
- All stainless steel construction



Product description

The PR3100 is constructed from stainless steel which incorporates thick film, ceramic and bonded strain gauge technology. This offers excellent stability and accuracy over a long service life. On request this is also available in corrosion resistant materials. The available pressure range options are from 0-1Bar to 0-600Bar.

There are optional ATEX and IECEx approved versions of the PR3100 available for Explosion protection for flammable gases (zone0), dusts (zone 20) and mining areas (group I M1).

Specifications

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|------------------------|---|
| Ambient temperature | -20..85°C |
| Atex Approvals | Ex II 1 D Ex ia IIIC T135 °C Da, Ex II 1 G Ex ia IIC T4 Ga, Ex I M 1 Ex ia I Ma |
| Atex approved | Yes |
| Electrical connection | DIN A 43650 |
| EMC | EN61000-6-4, EN61000-6-2 |
| Linearity | ≤±0.3% BSFL |
| Materials Wetted Parts | Stainless steel 316, Aluminium oxide, NBR |
| Media temperature | -20..85°C |
| Output | 4-20 mA |
| Pressure Range Max | 0 |
| Pressure Range Min | -1 |

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|----------------------------|--|
| Pressure reference | Gauge or Absolute |
| Process connection | G1/2 |
| Sensor technology | Thick film or Bonded foil strain gauge |
| Storage temperature | 5..40°C |
| Supply voltage | 13-36 V DC |

