



# ESI - PR3100 - INDUSTRIAL PRESSURE SENSOR

PR3100EX0250AB  
4-20mA, 0..250 bar, G1/4, 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

|                         |   |
|-------------------------|---|
| 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, Stainless steel 17-4                                       |
| Media temperature       | -20..85°C   |
| Output                  | 4-20 mA   |
| Overpressure protection | 500 bar   |
| Pressure Range Max      | 250   |
| Pressure Range Min      | 0   |

|                     |  |
|---------------------|--|
| Pressure reference  | Gauge or Absolute                      |
| Process connection  | G1/4                                   |
| Sensor technology   | Thick film or Bonded foil strain gauge |
| Storage temperature | 5..40°C                                |
| Supply voltage      | 13-36 V DC                             |

