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# ESI - PR3800 - FLUSH DIAPHRAGM PRESSURE SENSOR

PR3820-0001BV
4-20mA, 0..1 bar, SMS 40mm female, DIN




- Thick film sensor technology for long service life
- Pressure ranges up to 400 bar
- Up to 250°C media temperature option
- Easy clean flush membrane to prevent clogging

### PRODUCT DESCRIPTION

Robustly constructed from stainless steel, the PR3800 series incorporates the latest strain gauge technology together with a custom IC amplifier offering excellent stability and accuracy over a long service life. The range offers a stable and accurate output signal of 4-20 mA with options for 0-5 V and 0-10 V. Typical applications include food processing, pharmaceutical, petrochemical, waste water and slurry handling. In these installations the process media may corrode the sensing diaphragm or clog the narrow pressure inlet on a standard transmitter. The flush membrane can be easily cleaned for long term reliability and outstanding performance. For hygienic applications the PR3800 series provides a sanitary grade pressure fitting. Seals are available in a variety of forms and materials for a wide range of applications and can be directly attached to the proposed connection or remotely via stainless steel capillary. Pressure ranges available from 0-200 mbar to

An optional ATEX and IECEx approved versions of this range are available for explosion protection for flammable gases (zone 0), dusts (zone 20) and mining areas (group I M1).

# TECHNICAL DATA

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|---|---|
| **Ambient temperature** | -20..85°C |
| **Electrical connection** | DIN A 43650 |
| **EMC** | EN61000-6-4, EN61000-6-2 |
| **Linearity** | ≤±0.3% BSFL |
| **Material of wetted parts** | Stainless steel |
| **Media temperature** | -20..85°C |
| **Output** | 4-20 mA |
| **Overpressure protection** | 1.5 bar |
| **Pressure range max** | 1 bar |
| **Pressure range min** | 0 bar |

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|---|---|
| **Pressure reference** | Gauge |
| **Process connection** | SMS 40mm |
| **Sensor technology** | Ceramic thick film or Isolated Piezoresistive Silicon |
| **Storage temperature** | 5..40°C |
| **Supply voltage** | 13-36 V DC |