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# ESI - PR3850 - FLUSH DIAPHRAGM PRESSURE SENSOR

PR3851A0100BA
0-5V, 0..100 bar, G1/2 flush, 1M cable



- Thick film sensor technology for long service life
- Pressure ranges up to 400 bar
- Up to 85°C media temperature
- Easy clean flush membrane to prevent clogging

### PRODUCT DESCRIPTION

The PR3850 pressure transmitter has been designed to meet the requirements of the majority of industrial pressure measurement applications where a hygienic flush diaphragm connection is required. Robustly constructed from stainless steel this range of pressure transmitters incorporates the latest strain gauge technology together with a custom IC amplifier offering excellent stability and accuracy over a long service life. Output options include 0-5Vdc, 0-10Vdc and 0-20mA. This transmitter is particularly suitable for use with high viscosity materials. Typical applications include food processing, pharmaceutical, petrochemical, waste water and slurry handling. The flush membrane can be easily cleaned for long term reliability and outstanding performance.

## TECHNICAL DATA

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| **Ambient temperature** | -20..85°C |
| **Electrical connection** | 1M Cable outlet screened |
| **EMC** | EN61000-6-2, EN61000-6-4 |
| **Linearity** | ≤±0.3% BSFL |
| **Material of wetted parts** | Stainless steel 316L |
| **Media temperature** | -20..85°C |
| **Output** | 0-5V |
| **Overpressure protection** | 150 bar |
| **Pressure range max** | 100 bar |
| **Pressure range min** | 0 bar |
| **Pressure reference** | Gauge |
| **Process connection** | G1/2" flush diaphragm |
| **Sensor technology** | Ceramic thick film |

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| **Storage temperature** | 5..40°C |
| **Supply voltage** | 13-30 V DC |

