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ESI - PR3850 - FLUSH DIAPHRAGM PRESSURE SENSOR

PR3850EX0100BA
4-20mA, 0..100 bar, G1/2 flush, DIN, Ex



- 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

Ambient temperature	-20..85°C
ATEX approved	Yes
Electrical connection	DIN A 43650
EMC	EN61000-6-2, EN61000-6-4
EX 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
Linearity	≤±0.3% BSFL
Material of wetted parts	Stainless steel 316L
Media temperature	-20..85°C
Output	4-20 mA
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
Storage temperature	5..40°C
Supply voltage	13-36 V DC

