

Absolute and gauge pressure Ceraphant PTC31B

Cost-effective pressure switch with oil-free ceramic sensor for measurement in gases or liquids



Benefits:

- Integrated switching electronics for decentral and economic process monitoring and control
- Easy function check and information on site thanks to LEDs and digital display
- Dry capacitance ceramic sensor (Ceraphire) and minimum span of up to 0 to 20mbar provide reliable insight to the process
- High process availability for vacuum applications and applications with abrasive media
- IO-Link reduces costs and complexity due to easy configuration and flexible integration in all fieldbus systems.

Specs at a glance

- **Measuring cell** +100 mbar....+40 bar (+1.5 psi....600 psi)

from **€323.00**

Price as of 29.07.2026

More information and current pricing:

www.endress.com/PTC31B

Field of application: The Ceraphant PTC31B is a price-attractive pressure switch with ceramic, vacuum tight measuring cell for safe measurement and monitoring of absolute and gauge pressure. The pressure switch with compact design is extremely stable and high vacuum resistant up to 0bar abs. The IO-Link capability allows easy integration and parametrization of the device.

Features and specifications

Pressure

Measuring principle

Pressure switch

Pressure

Characteristic

Intelligent pressure switch with capacitive sensor, long term stable and abrasion resistant

Supply voltage

10...30 VDC

Reference Accuracy

0.5 %,
Platinum: 0.3 %

Long term stability

0.2 % of URL/year

Process temperature

-25 °C....+100 °C
(-13 °F....+212 °F)

Ambient temperature

-20 °C...+70 °C
(-4 °C...+158 °F)

Measuring cell

+100 mbar....+40 bar
(+1.5 psi....600 psi)

Max. overpressure limit

60 bar (900 psi)

Process connection

Threads:
G1/4, G1/2,
MNPT1/4, MNPT1/2,
DIN13,
JIS R1/2

Pressure

Communication

1x PNP switch
2x PNP switch
1x PNP switch +
4...20mA analogue

Design approvals

EN 10204-3.1 Final inspection
report
Cleaned from oil and grease
Cleaned for oxygen applications
Set min alarm

Specialities

Digital display

More information www.endress.com/PTC31B