

Absolute and gauge pressure Ceraphant PTP31B



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Cost-effective pressure switch with welded metal sensor for measurement in gases, steams or liquids

The Ceraphant PTP31B is a price-attractive pressure switch with piezoresistive sensor for safe measurement and monitoring of absolute and gauge pressure. The pressure switch with compact design is extremely stable and overload resistant for up to +400 bar. The IO-Link capability allows easy integration and parametrization of the device.

• **Benefits**

- Integrated switching electronics for decentral and economic process monitoring and control
- Function check and information on-site thanks to LEDs and digital display
- Overload-resistant sensor up to 400bar
- Small flush mounted process connections
- IO-Link reduces costs and complexity due to easy configuration and flexible integration in all fieldbus systems.

• **Field of application**

Pressure switch with metallic sensor diaphragm for monitoring absolute and gauge pressures in gases, vapors, liquids and dusts.

- Process connections: Threads
- Process temperature: -40 up to +100°C (-40 to +212°F)
- Process pressure: 400mbar to +400bar (6 to +6,000psi)
- Accuracy: up to ±0.3%

Features and specifications

- [Pressure](#)

- [Measuring principle](#)

Pressure switch

- [Characteristic](#)

Intelligent pressure switch with piezoresistive sensor, longterm stable and overload resistant

- [Supply voltage](#)

10...30 VDC

- [Reference Accuracy](#)

0.5 %,

Platinum: 0.3 %

- [Long term stability](#)

0.2 % of URL/year

- Process temperature
-40 °C...+100 °C
(-40 °F...+212 °F)
- Ambient temperature
-20 °C...+70 °C
(-4 °F...+158 °F)
- Measuring cell
+400 mbar....+400 bar
(+6 psi...+6000 psi)
- Max. overpressure limit
600 bar (9000 psi)
- Process connection
Threads:
G1/4, G1/2,
MNPT1/4, MNPT1/2,
DIN13,
JIS R1/2
- 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

Set min alarm

- Specialities

Digital display