

# Absolute and gauge pressure Ceraphant PTP31B

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



## 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.

## Specs at a glance

- **Measuring cell** +400 mbar....+400 bar (+6 psi...+6000 psi)

from **€249.00**

Price as of 26.03.2023

More information and current pricing:

[www.endress.com/PTP31B](http://www.endress.com/PTP31B)

**Field of application:** 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.

## Features and specifications

Pressure

Measuring principle

Pressure switch

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**Pressure****Characteristic**

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

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**Supply voltage**

10...30 VDC

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**Reference Accuracy**

0.5 %,  
Platinum: 0.3 %

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**Long term stability**

0.2 % of URL/year

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**Process temperature**

-40 °C...+100 °C  
(-40 °F...+212 °F)

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**Ambient temperature**

-20 °C...+70 °C  
(-4 °F...+158 °F)

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**Measuring cell**

+400 mbar...+400 bar  
(+6 psi...+6000 psi)

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**Max. overpressure limit**

600 bar (9000 psi)

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**Process connection**

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

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## Pressure

### Communication

1x PNP switch  
2x PNP switch  
1x PNP switch +  
4...20mA analogue  
AC/DC, DC-PNP  
IO-Link

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### Design approvals

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

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### Specialities

Digital display

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More information [www.endress.com/PTP31B](http://www.endress.com/PTP31B)