

# 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 **€257.00**

Price as of 26.03.2023

More information and current pricing:

[www.endress.com/PTC31B](http://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

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**Pressure****Characteristic**

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

-25 °C...+100 °C  
(-13 °F...+212 °F)

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**Ambient temperature**

-20 °C...+70 °C  
(-4 °C...+158 °F)

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**Measuring cell**

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

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**Max. overpressure limit**

60 bar (900 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

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### Design approvals

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

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### Specialities

Digital display

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More information [www.endress.com/PTC31B](http://www.endress.com/PTC31B)