





# Multi Range Pressure Transducer

## 0-2500 Pa, Single Channel

### PTH-3202

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#### Functions:

##### Temperature-compensated output signal

The electronic system is based on microprocessor technology, ensuring a precise output signal. Thanks to the integrated temperature compensation, the transducers are ideal for use over a wide range of temperatures. PTH is, for example, suitable for fresh-air inlets.

##### No risk of dust-related errors

PTH consists of semiconductor-based pressure elements that provide reliable and accurate measurements. As pressure affects these elements directly and there is no air flow through them, the risk of dust-related errors is extremely small.

##### Flexible design

PTH can be configured to suit any controller. With eight different pressure ranges and the possibility of choosing between voltage and current outputs, PTH pressure transducers have a wide range of applications, are easy to install and save space in the service van.

##### Signal fluctuation damping

It is possible to choose between two signal-damping periods, thus ensuring that PTH pressure transducers always provide a controllable signal. This is particularly useful in situations where measurement is only possible in turbulent air flows.

##### Protection against incorrect installation

The green LED indicates that the supply voltage has been connected correctly. If the actual pressure is outside the selected pressure range, the green LED flashes to indicate that the transducer should be set for a higher measuring range or that the tubing on the +/- connectors should be interchanged.

##### Protection against incorrect calibration

PTH is zero calibrated by pressing a button inside the enclosure. Tubes must be pressure free during zero calibration. If the yellow LED lights up, the pressure differential is greater than +50 Pa and it is recommended that the pressure tube(s) be removed before zeroing is performed.

#### Installation:

##### PTH installation

PTH is mounted using two screws. The mounting surface must be level between the two screws. The pressure tubes must be as short as possible and be secured in position to prevent vibration. To obtain the best possible results, pressure must be measured where there is least risk of turbulence, i.e. in the centre of the ventilation duct and at a distance of at least twice the width of the duct from bends and branches.

##### Control signal cable installation

The enclosure is opened without the use of tools by pressing the snap lock at the side of the connectors. The transducer cable may be up to 50 m in length. The transducer cable must be kept separate from mains carrying cables as voltages may otherwise be produced that can interfere with transducer function and damage the controller.

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