OPTIBAR PM 3050 –
Compact pressure transmitters with metallic diaphragm

The excellent performance combined with outstanding robustness of the full stainless steel construction and increased overload resistance makes this transmitter the optimal choice for general pressure applications.

A wide range of hygienic process connections with front flush diaphragm compliant with 3-A sanitary standard and EHEDG hygienic design places the OPTIBAR PM 3050 perfectly in food and beverage pressure and level applications.

In conjunction with our proven OPTIBAR DS diaphragm seals series, the OPTIBAR PM 3050 compact pressure transmitter can be deployed in nearly every application context of harsh chemicals or elevated process temperatures.

The optional display and adjustment module offers convenient commissioning and setup. Additional buttons on the converter electronics allow for a much simpler adjustment of zero and span locally. The latest version of HART® 7.5 combined with a precise and stable analogue 4...20mA output signal, guarantees long-term deployment security.
Fully welded stainless steel construction

A fully welded stainless steel construction provides utmost robustness and sturdiness which are as important as an accurate and precise measurement.

OPTIBAR DS series diaphragm seals

Some applications require extended temperature decoupling or special wetted materials for corrosion, adhesion or abrasion protection. An OPTIBAR DS series diaphragm seal provides here an optimal solution, which is carefully sized and fully welded for long lasting performance.

Display and adjustment module

Local indication of the measurement value as well as an easy and effortless configuration of the device are two significant benefits of an integrated display and adjustment module. The module can be optionally placed on any device of the same series.

High accuracy and temperature stability

The full digital linearization and temperature compensation provides an accurate measurement signal under changing temperature conditions.

High overload resistance

Although pressures over the nominal range of the transmitter do not cause immediate damages. A maximum working pressure limit too close to the nominal range might get easily exceeded causing permanent damage to the sensor. The higher the overload resistance the lower the chances of damage to the sensor due to pressure spikes.

Increased temperature limits

The sensor has been designed to withstand permanently process temperatures up to +150°C / +302°F.

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Documentation and more:
cmp.krohne.com/pressure/optibar-pm-3050

OPTIBAR PM 3050 hygienic process connections

A wide variety of hygienic process connections starting from DN25 (1”) diameter.

Clamp
DIN 32676 / ISO 2852
Tuchenhagen

Varivent

NEUMO
BioControl
Collar connection
DIN11844-1

Collar connection
DIN 11851

Approvals and certifications:

Material Conformance acc. to EC 1935 / 2004

Technical data of OPTIBAR PM 3050

| Accuracy (of calibr. span) | Reference accuracy | ±0.2%; +/- 0.1% |
| Pressure range | | |
| Nominal range (Pressure) | 0.4...100bar/5.8...1450psi |
| Process connection | Thread | G1/2” front flush |
| | Flange | 1” DN25 |
| Hygienic | Clamp | x1” ISO2852, DIN32676 |
| | | x DN25 acc. DIN11851 |
| | | Varivent, SMS, DIN 11851, |
| | | NEUMO Biocontrol, |
| | | + DIN 11864-1, |
| | | Neumo BioConnect |
| Other | with OPTIBAR DS series |
| Temperature range | Process | -40...+150°C/-40...+302°F |
| Material | Housing | St. st. 316L |
| Communication | Output | 4...20 mA HART® 7.5 |
| Approvals | Ex | ATEX / IECEx Ex ia |
| Hygienic | 3A, FDA, EHEDG |

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