

### P 26

Intelligent differential pressure transmitter with scalable range



#### Special features:

- range and display scalable
- switching contacts with adjustable switching thresholds
- output characteristics can be configured (root-extraction / linear)
- automatic zero-point calibration prevents zero-point drift
- unit conversion (e.g. mmH<sub>2</sub>O, mmHg, etc.)
- integrated valve provides a high level of overpressure protection
- manually setting the zero point results in a high level of process safety (optional)
- available with interface USB (optional)
- also for top-hat rail mounting
- multilingual menu (English, German, Italian, French)
- ± measuring ranges

The P 26 differential pressure transducer is designed for pressure monitoring applications in clean rooms, laboratories, pharmaceutical plants and operating theatres as well as for special uses in machine and plant construction. As well as measuring the differential pressure, the instrument also records positive and negative overpressures as well as flow rates or volumetric flows. The measuring range is scalable in the range from 10 ... 100 %. Two optional contact points allow the user to connect visual or audible alarms that are triggered any time values rise above or fall below specified limits. The transducer can be configured easily via an RS232 interface (option) with software. This can also be performed using a keyboard and display (optional). The measured values can be displayed in all standard units. A selectable time constant allows the transducer to be adjusted perfectly to the pressure conditions and thus ensures a stable output signal. The P26 can be mounted either on a wall or on top-hat rails.

#### Options:

The instrument is available with a factory calibration or DAkkS calibration certificate.

# Westenberg Wind Tunnels

## Technical data:

## & Measurement Systems

<b>measurement ranges</b> (others available upon request)	10 / 50 / 100 / 250 / 500 Pa 1 / 2,5 / 5 / 10 / 20 / 50 / 100 kPa free scalable fro, 10.. 100 % within a range
<b>margin of error</b> (0,3 Pa margin of error for reference)	0,5 % of scaled range, but min. 0,3 Pa (40 ... 100 % of end value)
<b>deflection drift / temperature</b>	0,03 % /K (+10°C ... + 50 °C)
<b>zero point drift / temperature</b>	± 0 % (cyclical zero-point correction)
<b>Overload capacity</b>	600 kPa for measurement ranges ≥ 2,5 kPa 200x for measurement ranges < 2,5 kPa
<b>medium</b>	Air, all non-aggressive gases
<b>max. line pressure</b>	600 kPa for measurement ranges ≥ 2,5 kPa 200x for measurement ranges < 2,5 kPa
<b>sensor response time</b>	25 ms
<b>time constants</b>	25 ms ... 60 s (adjustable)
<b>operating temperature</b>	+10 °C ... +50 °C
<b>storage temperature</b>	-10 °C ... +70 °C
<b>power consumption</b>	approx. 6 VA
<b>weight</b>	approx. 0,75 kg
<b>cable glands</b>	3 x M 16
<b>pressure ports</b>	For hose NW 6 mm, others available upon request
<b>protection class</b>	IP 65, USB IP 40
<b>testing</b>	CE, CSA, HOST
<b>accessories</b>	DAkKS-DKD calibration certificate, German DAkKS-DKD calibration certificate, English Factory calibration certificate

output*	power supply
0 ... 10 V ( $R_L \geq 2 \text{ k}\Omega$ )	24 V AC/DC
0 ... 20 mA ( $R_L < 500 \Omega$ )	24 VAC (with galvanic separation)
4 ... 20 mA ( $R_L \leq 500 \Omega$ )	230/115 VAC
± 5 V ( $R_L \geq 2 \text{ k}\Omega$ )	

\*Output signal selectable

measurement range	margin of error
Measurement range e.g.: 0 – 10 Pa. Mbar, mmHg usw.	standard ± 0,2 % of end value but min. 0,3 Pa

LCD	Contact points
none	none
LCD and buttons for configuration	2 switching relays max. 230 VAC. 6 A

Interface / external zero-point calibration
ohne
USB, datacable included in delivery
External zero-point calibration

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Hammerschmidt Str. 114

50999 Köln

**Labor!** Lieferanschrift:

Vitalisstraße 100

50827 Köln

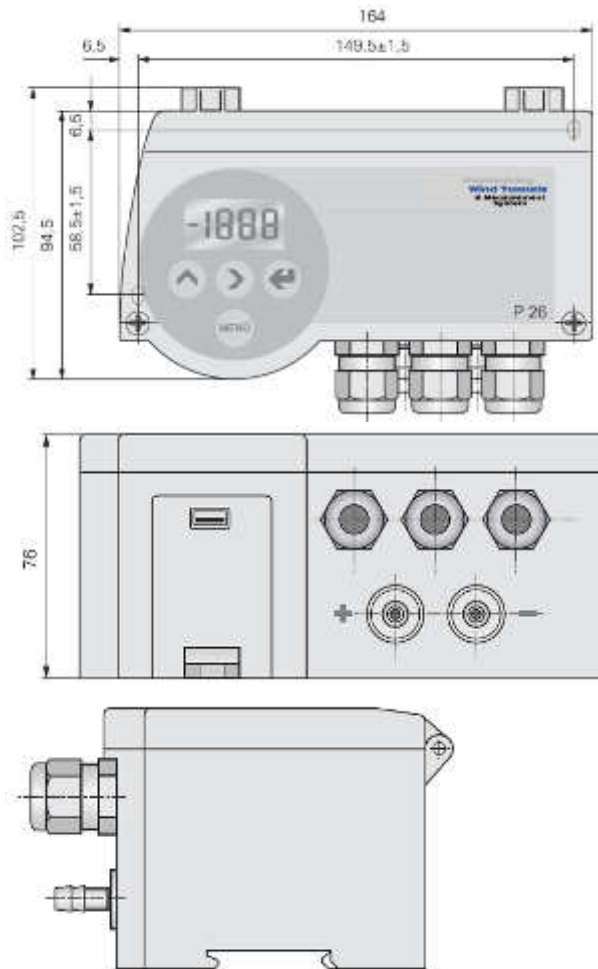
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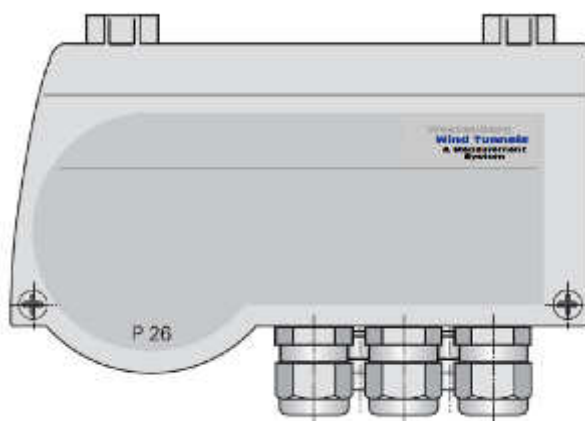
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### Dimension drawing

#### P 26 with LCD:



#### no LCD:



### P 26 Configuration software:



### Connection diagram:

