

Roorveld 1 6093 PL Heythuysen (NL) T +31 (0)475 49 74 24 E info@pedak.nl W www.pedak.nl

## feel.the.difference.

## differential pressure transmitter feel FDP



The differential pressure transmitter **feel FDP** is perfectly suited for the precise measurement of the finest differential pressures for filter monitoring, volume flow control or room pressure monitoring. Due to the precision sensor element and high-resolution measuring electronics, accuracies of  $\pm$  0.2% are achieved. Parameters such as measuring range, unit or output signal can be adapted to the on-site conditions by the user via DIP switch, bluetooth or software. For applications with high demands on long-term stability, the Auto-Zero option offers measured value stability over years. A high-resolution 2.8" TFT display can be selected as an option. A snap-in frame and all mounting accessories are included for convenient mounting.

Applications:

- Building automation
- Fan control
- Filter monitoring
- Cleanroom monitoring
- Room pressure control
- Volume flow measurement

## Datasheet

Measurement data	
Measurement range	Differential pressure
	Variant P2 <b>0 1 hPa (Standard)</b> Selectable between: 025 Pa   0 50 Pa   0 75 Pa   0 100 Pa   -25 Pa 25 Pa   -50 50 Pa   -75 75 Pa   -100 100 Pa <i>Measuring range within -100 100% of the basic measuring range freely configurable via software</i>
Units	Selectable via software: Pa, hPa, kPa, mbar, bar, psi und mmH2O
Overall accuracy	0,2 % v. FS
Long-term stability:	≤ 0,1% FS/Year
Temperature drift	≤ 0,03% (FS/K)
Overload limits	Variant Proof pressure Burst pressure 1 hPa 70 hPa 200 hPa

Time constant	Selectable via DIP-switch or software 50 ms (Standard) 500 ms 2000 ms 5000 ms
Electrical data	
Power supply	2227 VAC (50 Hz) / 1931 VDC
Output signal	Selectable via DIP-switch or software* 0-10 V (Standard) 2-10 V 4-20 mA 0-20 mA <i>Optional</i> : RS485-Interface with Modbus <i>Optional</i> : 2 open-collector outputs with a maximum switching voltage of 24VDC and 1A (not short curcuit proof) *Switching between current and voltage can only be done by a switch on the PCB and not by software
Electrical connections	Spring loaded terminals max. 2.5 mm <sup>2</sup>
Communication	Mini-USB type B, USB 2.0
Ambient conditions	
Operating conditions	Humidity 0 95% rF (non-condensing) Temperature -20°C - 80 °C
Storing conditions	Humidity 0 95% rF (non-condensing) Temperature -20°C - 80 °C
Ambient pressure	600 1200 hPa
Housing	
Dimensions	Basic housing: 109,8 x 89,0 x 44,1 mm (W x H x D)
Pressure connections	Ø 6,6 x 10 mm Stainless steel
Cable glands	Skintop M16 x 1,5 mm (4,5 - 10 mm)
Protection type	IP65
Display   Display	2,8" TFT-Display 320 x 240 px (optional)