



**mecair** DP DIGITAL

# DIFFERENTIAL PRESSURE MONITOR

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## DESCRIPTION

The **DP Monitor** is a differential pressure monitor designed specifically for filter house applications.

The apparatus is available with 2 different mounting enclosures:

- Standard ABS enclosure
- DIN Rail mounting enclosure

Grade of Protection for the Standard ABS enclosure is IP65.

Grade of Protection for the version with DIN Rail mounting is IP54.

IP65 protection rating is available as an optional feature and obtained by adding a transparent front panel.

The DP Monitor is available in two versions:

**Micro DP:** Model DPD  
(ABS Enclosure-IP65)  
Model DPD-DIN  
(DIN Rail Mounting-IP54)  
Model DPD-DIN/IP65  
(Optional – DIN Rail Mounting-IP65)

- Digital alphanumeric backlit display
- Five languages easily selectable
- One set point
- Relay contact

**DP Super:** Model DPS  
(ABS Enclosure-IP65)  
Model DPS-DIN  
(DIN Rail Mounting-IP54)  
Model DPS-DIN/IP65  
(Optional – DIN Rail Mounting-IP65)

- Digital alphanumeric backlit display
- Five languages easily selectable
- High set point
- Low set point
- Alarm set point
- Separate relay for set point and alarm
- 4–20 mA circuit, Active or Passive

All the units are supplied complete with two filter house sensors accessories to be mounted externally to the filter wall: one sensor tap for the dirty plenum and the other sensor tap for the clean air plenum. If installing the DP Digital as a pressure monitor with reference to the environment, you have to install just one filter house sensor and just one connection pipe.

Upon request it is possible to supply the unit in accordance with the European Directive II 2 D Ex tD A21 IP64 T70°C.

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TECHNICAL CHARACTERISTICS	
Power supply	115/230 V AC/DC – $\pm 10\%$ 50/60 Hz
Power absorption	2.5 VA
Range of measure	0.01–9.99 kPa
Zero thermal drift	Thermal compensation $\pm 5\%$
Linearity	$\pm 2\%$ $\pm 1\%$ digit on scale kPa
Connections	Push-in plugs – section max. 2.5 mm <sup>2</sup>
Temperature	Warehousing: $-20^{\circ}\text{C}/+80^{\circ}\text{C}$ Working: $-10^{\circ}\text{C}/+50^{\circ}\text{C}$
Dimensions	Version ABS enclosure: 150 × 200 × 80 mm Version DIN: 72 × 144 × 100 mm
Weight	0.80 kg
Units of measure	kPa – mm H <sub>2</sub> O – " H <sub>2</sub> O – m Bar – Inch

