

# DP-101SPD PRESSURE AND FLOW MEASUREMENT METER AND TRANSMITTER



The DP-101SPD is a surface mounting meter with a 4 digit numerical display intended for the measurement of pressure differences. The measurement unit also has a square root function which allows the display and the output to be scaled in pitot tube measurements to give the flow volume. It is delivered with a built-in sensor and is pre-programmed ready for use.

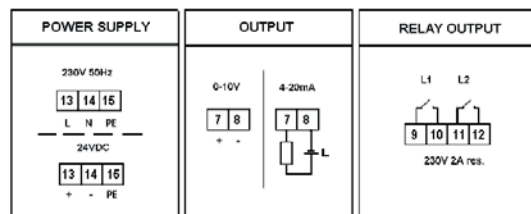
As an option, the meter may also be equipped with two adjustable alarm limits and a programmable current output of 4-20 mA or voltage output of 0-10V. Programming by the user is done using the keys on the front panel and the display. In addition to setting the input, the output, the alarm limits and a password, the user may also program the display using a so-called 'multisample average filter'. This means that changes in the measured value are attenuated by showing the average value of sequential samples the number of which may be set by the user in intervals of five, ten, fifteen etc. samples.

The DP-101SPD meter is small and compact. The surface mounting enclosure is only 80 x 130 x 35 mm. All electrical connections are made to screw connectors located under the cover, suitable pressure and flow tube connections are made to tube connectors on the underside. Power required is either mains voltage, 230 V 50 Hz or low voltage, 24 V AC or DC (on separate order).

## TECHNICAL SPECIFICATIONS

Display	4-digit seven-segment LED-display, number height 14 mm
Results	1) pressure difference measurements - ranges 0...0.2 / 3.5 / 6.9 / 100 kPa - connections 4/6 tubes 2) air flow volume m <sup>3</sup> /s, m <sup>3</sup> /h, ft <sup>3</sup> /h - automatic calculation with user programmable K-factor multiplier (formula $Q=k \times \sqrt{\Delta p}$ )
Meas. rate	> 5 measurements / sec
Alarm limits (optional)	-two adjustable upper or lower limits with relay outputs (max 230 V 2 A) -adjustable hysteresis values and alarm specific delays -front panel indicator lights
Analogue output (optional)	a) 4-20 mA current output b) 0-10V voltage output
Precision	±0.5% of range ±1 digit / 25°C
Operating temp.	0...+50 °C, effect < 500 ppm/°C
Power supply	230 V 50 Hz ±10% or 24 VAC/DC

## EXTERNAL CONNECTIONS



## ORDER INFORMATION

<b>DP-101SPD1</b>	-meas. range 0 to 3500 Pa
<b>DP-101SPD2</b>	-meas. range 0 to 200 Pa
<b>DP-101SPD3</b>	-meas. range 0 to 100 kPa
<b>DP-101SPD4</b>	-meas. range 0 to 6900 Pa

## ADDITIONAL EQUIPMENT

<b>-L2</b>	Adjustable limits (2)
<b>-C420</b>	4-20 mA current output
<b>-V010</b>	0-10V voltage output
<b>-P24 DC</b>	Power 24 VDC
<b>-P24 AC</b>	Power 24 VAC