

## DP-101S-AF AIR FLOW METER AND TRANSMITTER



The DP-101S-AF is a surface mounting meter with a 4 digit numerical display intended for the measurement of air-velocity in air-conditioning, clean room, fume hood etc. applications. The measurement unit also has an area x air-velocity calculation function which allows the display and the output to be scaled in air-velocity 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.

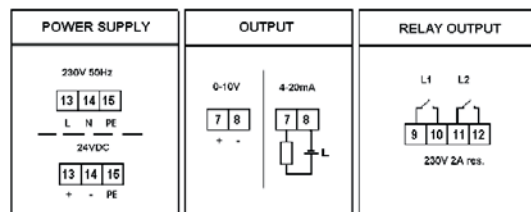
In addition to setting the input, the output, the alarm limits and a password, the user may also program the display using a so-called 'multisample average filter'. This means that changes in the measured value are attenuated by showing the average value of sequential samples the number of which may be set by the user in intervals of five, ten, fifteen etc. samples.

The DP-101S-AF 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. Air velocity sensor is connected with 1,5 m cable to the instrument. 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
Input	Thermal air-velocity sensor, length 130 mm, Ø 8 mm
Results	1) Air flow 0-1/5/10/20 m/s 2) Air flow volume with user programmable duct area
Meas. rate	> 5 measurements / sec
Alarm limits (optional)	-two adjustable upper or lower limits with relay outputs (contact max 230 V 2 A) -adjustable hysteresis values and alarm specific delays
Analogue output (optional)	a) 4-20 mA current output b) 0-10V voltage output
Precision	3 % of reading $\pm 0,2$ m/s
Operating temp.	0...+50 °C, effect < 500 ppm/°C
Power supply	230 V 50 Hz $\pm 10\%$ or 24 VAC/DC

### EXTERNAL CONNECTIONS



### ORDER INFORMATION

<b>DP-101S-AF-01</b>	-meas. range 0...1 m/s
<b>DP-101S-AF-05</b>	-meas. range 0...5 m/s
<b>DP-101S-AF-010</b>	-meas. range 0...10 m/s
<b>DP-101S-AF-020</b>	-meas. range 0...20 m/s

### 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 (AC)</b>	Power 24 VDC (VAC)