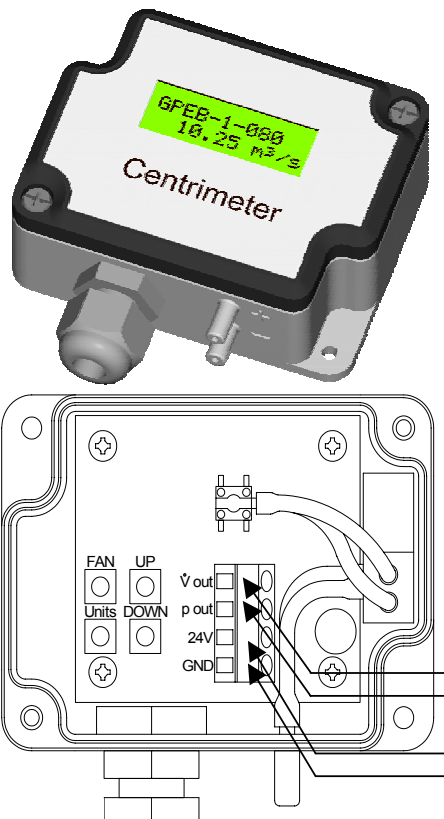


## CENTRIMETER - AIRFLOW TRANSMITTER WITH DISPLAY

Order code GTLZ-86-5-0



The Centrimeter provides a simple and accurate means of measuring a fan's airflow. The measuring device is self-calibrating and automatically sets a reference zero point and adjusts itself for changes in ambient temperature.

The device allows the user to select the displayed units of measured airflow, either in  $\text{m}^3/\text{s}$  or  $\text{m}^3/\text{h}$ , or differential pressure in Pa.

The type and size of fan connected to the Centrimeter can be easily selected by using the buttons, which are located beneath the removable display fascia. Airflow is displayed on the device by means of measuring fan differential pressure and converting it to airflow from a constant "k-factor" which varies for each individual type and size, these "k-factors" can be manually adjusted if required.

The Centrimeter also includes two 0...10V output functions, which are proportional to the actual measured airflow or pressure.

### Electrical connections:

p output 0...10 V represents 0...7000 Pa pressure difference.

v output 0...10 V represents 0...Q max airflow.

Q max depends on fan type and is marked on fan plate.

24 VAC/DC

0 VAC

### Technical specifications:

Measuring range	0...7000 Pa
Measuring principle	Silicon Piezoresistive Technology
Accuracy (0...+50°C)	$<\pm(0,15\% \text{ of range} + 1\% \text{ of reading})$
Long term stability	$<\pm 0,0\%$ (auto zero)
Response time	4 s
Max. Overpressure	130 kPa
Suitable media	Air
Operating voltage max. tolerance	Input voltage 24 AC/DC $\pm 10\%$
Power loss	$< 1,0 \text{ VA}$
Air flow, terminal v out	DC 0-10 V min 1 k $\Omega$
Pressure, terminal p out	DC 0-10 V min 1 k $\Omega$
Housing material	ABS
Cover material	PC
Electrical connections	4 screw terminals
Cable entry	PG 9
Pressure connections	Male $\varnothing 5,2 \text{ mm}$
Weight	130 g
Dimensions	86,5 x 64,5 x 37 mm
Operation temperature	0...+50°C
Storage temperature	-10...+70°C
Ambient humidity	0 to 95% RH
Protection standard	IP54

### Pressure connections:

The pressure connection coming from the fan airflow rings must be installed on the " - " connection and the pressure connection coming from the fan section on the " + " connection.

### Location:

The Centrimeter device should be installed on a flat vibration free surface with the pressure connections facing downwards.

### Selecting the fan size/type:

Press and hold down the FAN/K button, then select the correct fan type and size by using the UP (+) and DOWN (-) buttons. The current selected fan type/size is shown on the display.

### Selecting the units of measure:

Press and hold down the UNITS button, then select the required unit of measure by using the UP (+) and DOWN (-) buttons. The current selected units of measure is shown on the display.

### Adjusting the "K-factor":

Press and hold down both the FAN/K and UNITS buttons together, the K-factor value can be adjusted  $-20\%$ ... $+5\%$  by using the UP (+) and DOWN (-) buttons. The current percentage is shown on the display.