

# CPS-D-24V PRESSURE SENSOR WITH ILLUMINATED DISPLAY

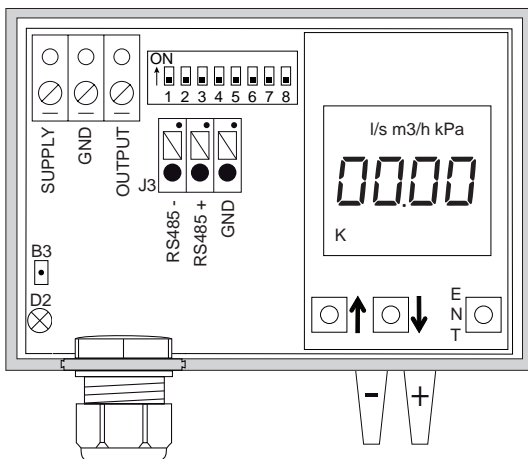
Differential air pressure sensor for ventilation installations. 8 possible pressure range settings. 0-2100 Pa. Adjustable K factor for volume measurement. Modbus RTU.



## TECHNICAL DATA

<b>Supply voltage:</b>	24V AC/DC $\pm 10\%$
<b>Power consumption:</b>	Approx. 60 mA
<b>Output signal:</b>	0-10V/4-20 mA
<b>Communication:</b>	Modbus RTU via RS485
<b>- Parity selectable:</b>	None, even or odd
<b>- Speed</b>	
<b>(baud rate, kbps):</b>	9.6 / 19.2 / 38.4 / 57.6
<b>- Address:</b>	1-247
<b>Pressure ranges:</b>	0-50/100/300/500/700/1000/ 1500/2100 Pa
<b>Volume ranges:</b>	0-100/500/1000/5000/9999/ 20000/50000 l/s eller m <sup>3</sup> /h
<b>Accuracy:</b>	Normally $\pm 1\%$ of measured pressure (@ >7 Pa)
<b>Display:</b>	LCD, backlit
<b>LED green:</b>	Fixed light: normal function Flashing: zero pressure calibration
<b>Ambient temperature:</b>	-20 to +50°C
<b>Cable inputs:</b>	1xM16, 5-10 mm cable
<b>Dimensions (WxHxD):</b>	74x91x36xmm
<b>Weight:</b>	Approx. 100 g
<b>Protection:</b>	IP54

## WIRING DIAGRAM



## PROPERTIES

- 8 possible pressure range settings
- Background lit display
- Output signal can be displayed
- Volume calculation with K factor
- Modbus RTU
- High accuracy
- Ambient temperature -20 to +50°C
- Easy to install enclosure
- Removable cable port and terminal block
- 0-10V output signal
- 4-20 mA output signal
- 4 signal damping choices
- Supplied with 2 m hose and 2 nipples

## FUNCTION

The CPS-D-24V pressure sensor has an integrated differential pressure element that is temperature compensated for high accuracy and linearity. The required pressure range is set with a DIP switch. The output signal (0-10V or 4-20 mA) and required signal damping are also set with the DIP switch. Under the cover is a backlit display and 3 program buttons for display settings, Modbus communication and calculation of volume. The display can be programmed to show litres per second or m<sup>3</sup> per hour. The display can also be programmed to alternately show the current pressure and the current output signal as a percentage.

The terminal block and enclosure cable port (with mounted M16 cable fitting) are removable for easier installation. The enclosure cover is hinged at the top, has a snap fastener at the bottom and catches to keep the cover in raised position.

## USE

CPS-D-24V is intended for measuring differential pressure in ventilation installations.

## MOUNTING

CPS-D-24V is for wall mounting. See the installation instructions included with the product for more information.

## MAINTENANCE

CPS-D-24V is maintenance free. Zero calibration can be carried out if necessary.

## ORDERING EXAMPLE

Part code	Name
CPS-D-24V	Pressure sensor with display 0-2100 Pa, 24V