

Management of pressure in raised floor for μ Air Connect 2

CHARACTERISTICS OF THE CP101 PRESSURE SENSOR

Pressure

Operating principle: The piezoresistive type sensing element generates a voltage proportional to the pressure applied on the sensor.

Measurement scope see "References"

Unit of measurement Pa

Accuracy* $\pm 1.5\%$ of the reading $\pm 3\text{Pa}$

Response time $1/e$ (63%) 0.3 sec

Autozero manual, push-button

Fluid type air and neutral gas

Permissible overpressure 25000 Pa



CHARACTERISTICS OF THE HOUSING

No display

Housing ABS

Fire rating H-B as per UL94

Protection rating IP 65

Connections Barbed $\varnothing 6.2\text{ mm}$
with rings for $\varnothing 4 \times 6\text{ mm}$ tubes

Cable gland for $\varnothing 8\text{ mm}$ max. cables

Weight 116 g

TECHNICAL SPECIFICATIONS

Outputs/Power supply 0-10 V active sensor (power supply 24 Vac/Vdc $\pm 10\%$), 4 wires
maximum load: 500 Ohms (4-20 mA)
minimum load: 1 K Ohms (0-10 V)

Consumption 2 VA (0-10 V) or max. 22 mA (4-20 mA)

Electromagnetic compatibility EN 61326

Electrical connection screw terminal block for $\varnothing 1.5\text{ mm}^2$ max. cables

PC communication Kimo RS 232 cord

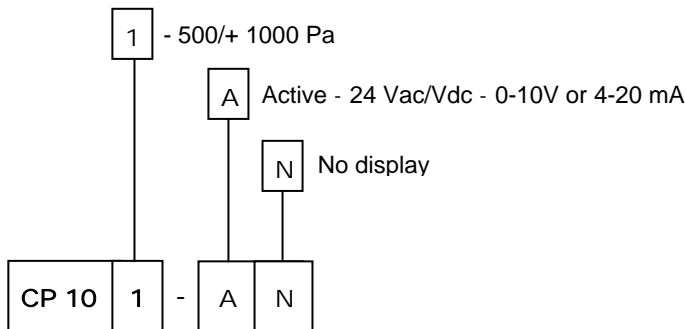
Operating temperature 0 to 50°C

Storage temperature - 10 to + 70°C

Environment air and neutral gas

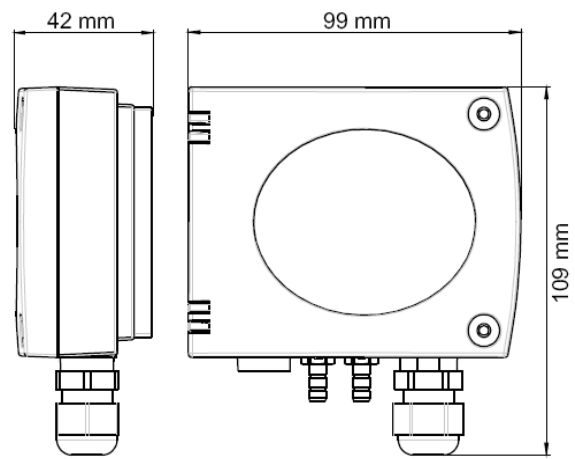
REFERENCES

The coding below is used to compose the reference for a sensor

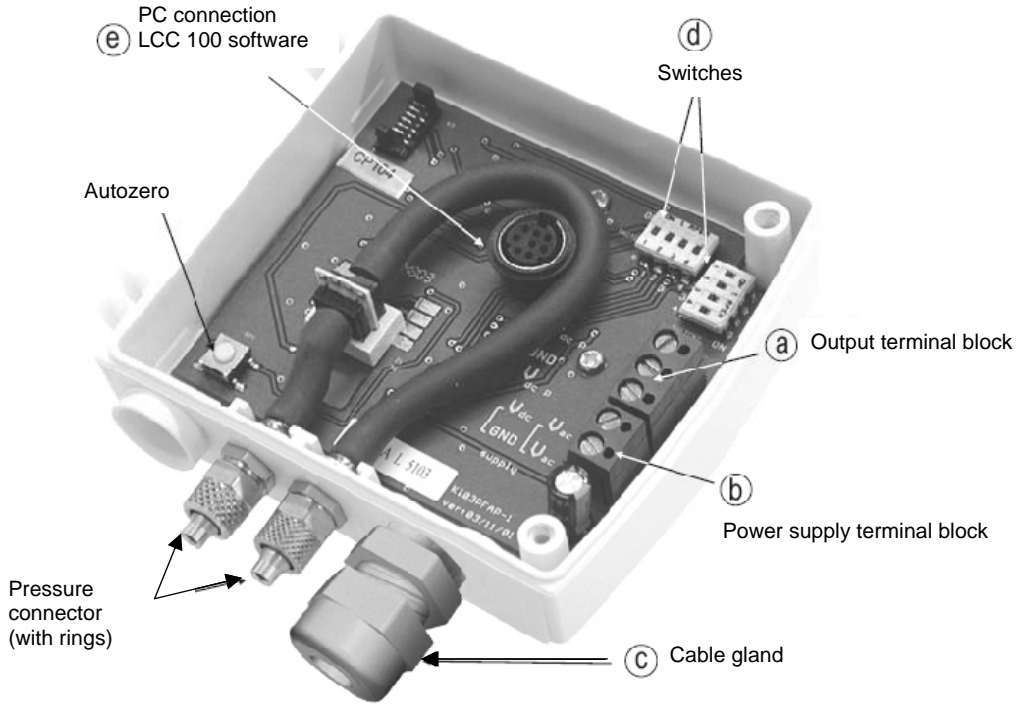


HOUSING DIMENSIONS

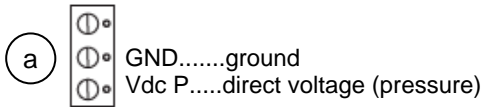
(with mounting support)



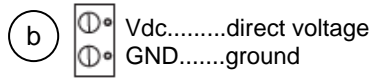
CONNECTORS



0-10V output

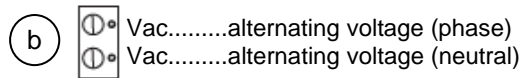


Direct power supply

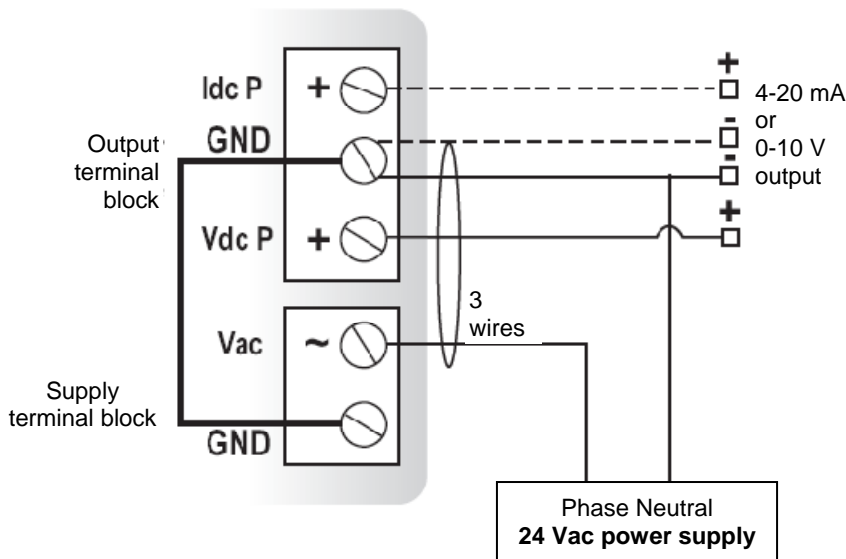


OR

Alternating power supply

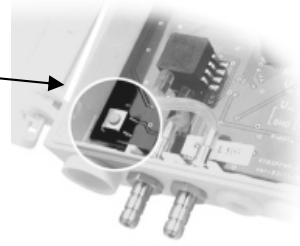


ELECTRICAL CONNECTIONS (as per standard NFC15-100)



AUTOZERO

To perform an Autozero, disconnect the tubes from the 2 pressure connections and press this button.



CONFIGURATION

The measurement scopes, the units and the device's output type can be configured (depending on the model), via a switch and/or software (connector (e) and (d) on the "connections" diagram).

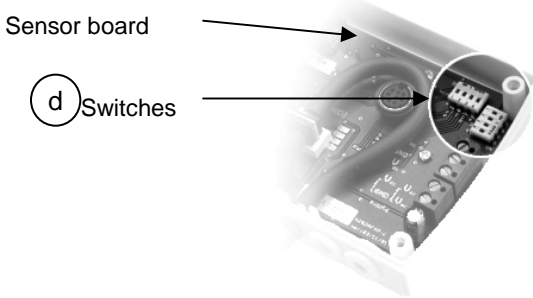
Configuration via switch



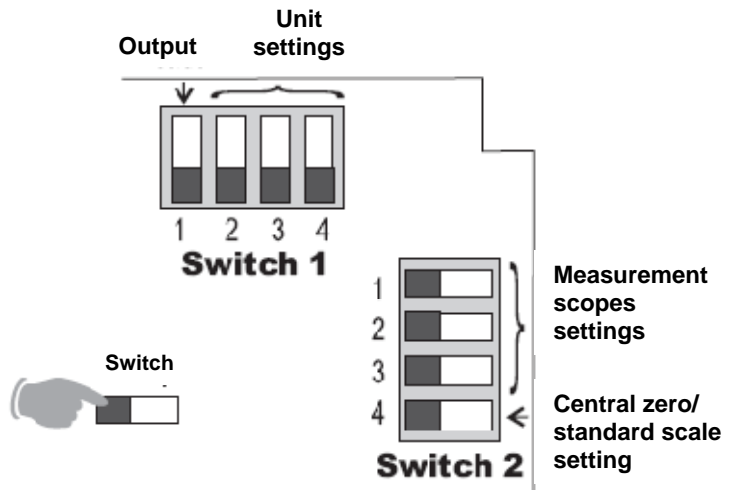
To configure your device, switch it off and enter the desired settings using the switches as shown in the tables. Once configured, switch the sensor back on.



To configure your device, undo the 2 screws on the housing and open it.



Identification of switches on the board



Setting the switch 1 output

Configuration	0-10 V
Combinations	

To set this type of analogue output, position switch 1 of the output as shown opposite.

Setting the switch 1 units

Configuration	Pa
Combinations	

To set a unit of measurement, position switches 2, 3 and 4 of the units as shown opposite.

Setting the switch 2 measurement scopes

Combinations		1	1	1	1	1
		2	2	2	2	2
CP 101		3	3	3	3	3
		4	4	4	4	4
Pa		100	250	500	750	1000

To set a measurement scope, position switches 1, 2 and 3 of the measurement scopes as shown in the table above.

Setting the switch 2 standard scale/central zero

Configuration	Full scale
Combinations	1
	2
	3
	4

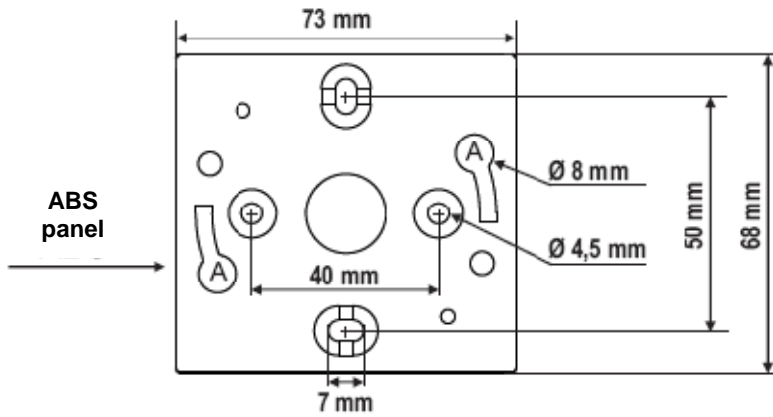
To set this type of measurement scope, position switch 4 as shown opposite.
 Example: standard/0 (0/100 Pa)

FITTING

To mount the sensor on the wall, affix the ABS panel (supplied with the sensor) to the wall. Drill hole: Ø 6 mm (screws and rawl plugs supplied).
 Insert the sensor in the mounting panel (points A on the diagram) and tilt it 30°.
 Pivot the housing clockwise until it is securely clipped.



Once the sensor is in position, switch it on and carry out the autozero procedure to ensure the sensor operates correctly in any position.



MAINTENANCE

Avoid the use of aggressive solvents. When cleaning with formalin-based products (parts or ducts), protect the device.