



DATA SHEET

Differential pressure transmitter

CP20



Ranges from -250 Pa to
5000 Pa (according to model)



Active 0-10 V or
passive 4-20 mA
models

Technical specifications

	CP21	CP22	CP23
Measuring ranges	-250 to 250 Pa	0 to 2500 Pa	0 to 5000 Pa
Measurement units	Pa	Pa	Pa
Accuracy*	$\pm(2 \text{ Pa} + 1\% \text{m.v.}^{**}) @ 25^{\circ}\text{C}$	$\pm(5 \text{ Pa} + 1.5\% \text{m.v.}^{**}) @ 25^{\circ}\text{C}$	$\pm(15 \text{ Pa} \pm 1.5\% \text{m.v.}^{**}) @ 25^{\circ}\text{C}$
Tolerated overpressure	30 000 Pa	60 000 Pa	100 000 Pa

General features

Output / Supply

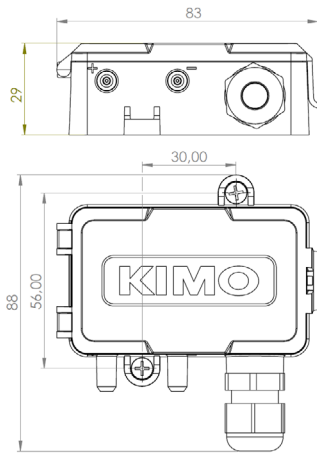
Active sensor 0-10 V (power supply 24 Vac/Vdc $\pm 10\%$), 3-4 wires
Passive sensor 4-20 mA (power supply 16/30 Vdc), 2 wires
Maximum load: 500 Ω (4-20 mA) - Minimum load: 1 k Ω (0-10 V)
24 Vac 50Hz / 24Vdc $\pm 10\%$

Consumption	1 VA
European directives	2014/30/EU EMC; 2015/863/EU RoHS 3; 2012/19/EU WEEE
Security	Protection class 3 - Pollution degree 2
Electrical connection	Screw terminal block for cables from 0.15 to 1.5 mm ² or from 21 to 16 AWG. Carried out according to the code of good practice
Environment	Air and neutral gases
Response time	<8 seconds
Zero setting	Manual autozero with push-button
Type of fluid	Air and neutral gases
Conditions of use (°C/%-RH/m)	From -40 to +60 °C (-40 to 140 °F). In non-condensing condition. From 0 to 2000 m (0 to 6561').
Storage temperature	From -40 to +70 °C (-40 to 158 °F)

*All the accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

**m.v = measured value

Dimensions (mm)



Features of the housing

Material	ABS V0 as per UL94
Protection	IP54
Connections	Straight, Ø 6.2 mm
Cable gland	For cable Ø 8 mm maximum
Weight	64 g

Part number

CP 2	—	3	—	A	—	N
		Measuring range 1: -250 to 250 Pa 2: 0 to 2500 Pa 3: 0 to 5000 Pa		Power supply / Output A: Active 0-10 V, 3-4 wires P: Passive 4-20 mA, 2 wires		Display N: Without display

Example: CP23 – AN
Pressure transmitter measuring range 0 to 5000 Pa, 0-10 V active, without display

See below the references for our transmitters:

Designation	Sales reference	Description
CP21-AN	28176	Differential pressure transmitter CP21-AN, range from -250 to 250 Pa, 0-10 V (active model, 3-4 wires), without display. Power supply 24 Vac/24Vdc.
CP21-PN	28172	Differential pressure transmitter CP21-PN, range from -250 to 250 Pa, 4-20 mA output (passive model, 2 wires), without display. Power supply 16-30 Vdc.
CP22-AN	28177	Differential pressure transmitter CP22-AN, range from 0 to 2500 Pa, 0-10 V (active model, 3-4 wires), without display. Power supply 24 Vac/24Vdc.
CP22-PN	28173	Differential pressure transmitter CP22-PN, range from 0 to 2500 Pa, 4-20 mA output (passive model, 2 wires), without display. Power supply 16-30 Vdc.
CP23-AN	28178	Differential pressure transmitter CP23-AN, range from 0 to 5000 Pa, 0-10 V (active model, 3-4 wires), without display. Power supply 24 Vac/24Vdc.
CP23-PN	28174	Differential pressure transmitter CP23-PN, range from 0 to 5000 Pa, 4-20 mA output (passive model, 2 wires), without display. Power supply 16-30 Vdc.

Accessories



A wide range of accessories is available. Please refer to the technical data sheet for transmitter accessories.



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