

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

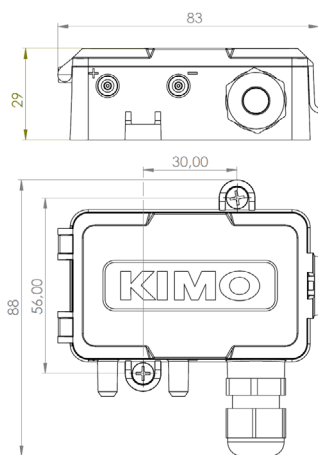
General features

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 ($^{\circ}\text{C}/\% \text{-RH/m}$)	From -40 to +60 $^{\circ}\text{C}$ (-40 to 140 $^{\circ}\text{F}$). In non-condensing condition. From 0 to 2000 m (0 to 6561').
Storage temperature	From -40 to +70 $^{\circ}\text{C}$ (-40 to 158 $^{\circ}\text{F}$)

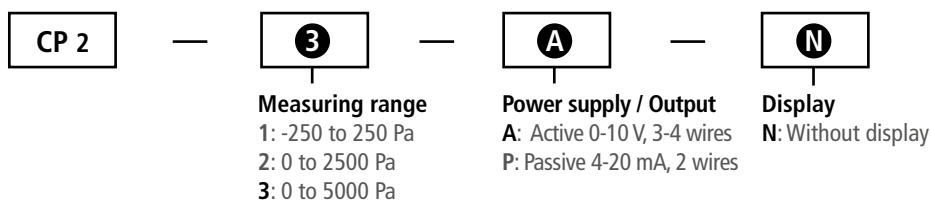
Dimensions (mm)



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



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.

Kimo, a Sauer mann brand.

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