



## sauermann CPE 310 Differential Pressure Sensor User Guide

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CPE 310  
Quick Start Guide

[www.sauermanngroup.com](http://www.sauermanngroup.com)



Flush-mount multifunction pressure transmitter

	Input for interchangeable probe (Class 310)		3 analog outputs 0-5/10 V or 0/4-20 mA
	3 audible and visual alarms		MODBUS network RS485 system (optional)

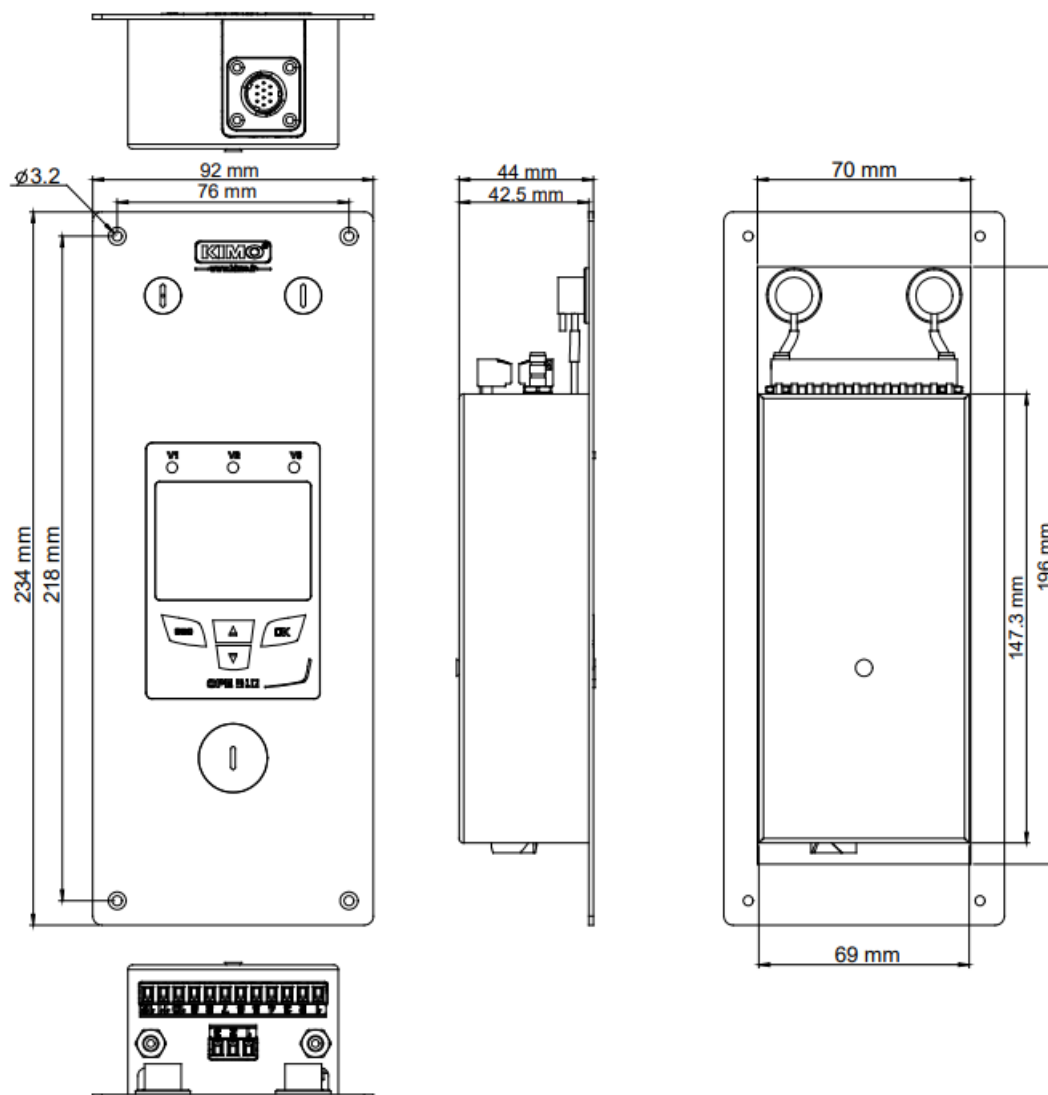
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## General features

Power supply	24 Vac / Vdc $\pm 10\%$
Output	3 x 0/4-20 mA or 3 x 0-5/10 V (4 wires) Common mode voltage Maximum load: 500 Ohms (0/4-20 mA) / Minimum load: 1 K Ohms (0-5/10 V)
Galvanic isolation	On the output
Consumption	5 VA
Conformity	2014/30/EU EMC; 2014/35/EU Low Voltage; RoHS 2011/65/EU (EU)2015/863; 2012/19/EU WEEE
Electrical connection	Screw terminal block for cables from 0.05 to 1.5 mm <sup>2</sup> or from 30 to 16 AWG Carried out according to the code of good practice
RS485 communication	Digital: Modbus RTU protocol, configurable communication speed from 2400 to 115200 Bauds (optional)
Visual alarm	Blinking of the value
Audible alarm	Buzzer (70 dB at 10 cm)
Environment and type of fluid	Air and neutral gases
Conditions of use ( $^{\circ}\text{C}/\%\text{RH}/\text{m}$ )	From -10 to +50 $^{\circ}\text{C}$ . In non-condensing condition. From 0 to 2000 m
Storage temperature	From -10 to +70 $^{\circ}\text{C}$

## Features of the housing



Front face	Brushed stainless steel 316 L
Back housing	Flush-mount in stainless steel 304 L
Protection	IP65 in the front face
Display	Electroluminescent alphanumeric (38 x 48 mm) Protection screen made of inactinic red PMMA
Height of the digits	14 mm
Back fittings	Barbed fitting $\varnothing 5.2$ mm
Weight	640 g

### Symbols used

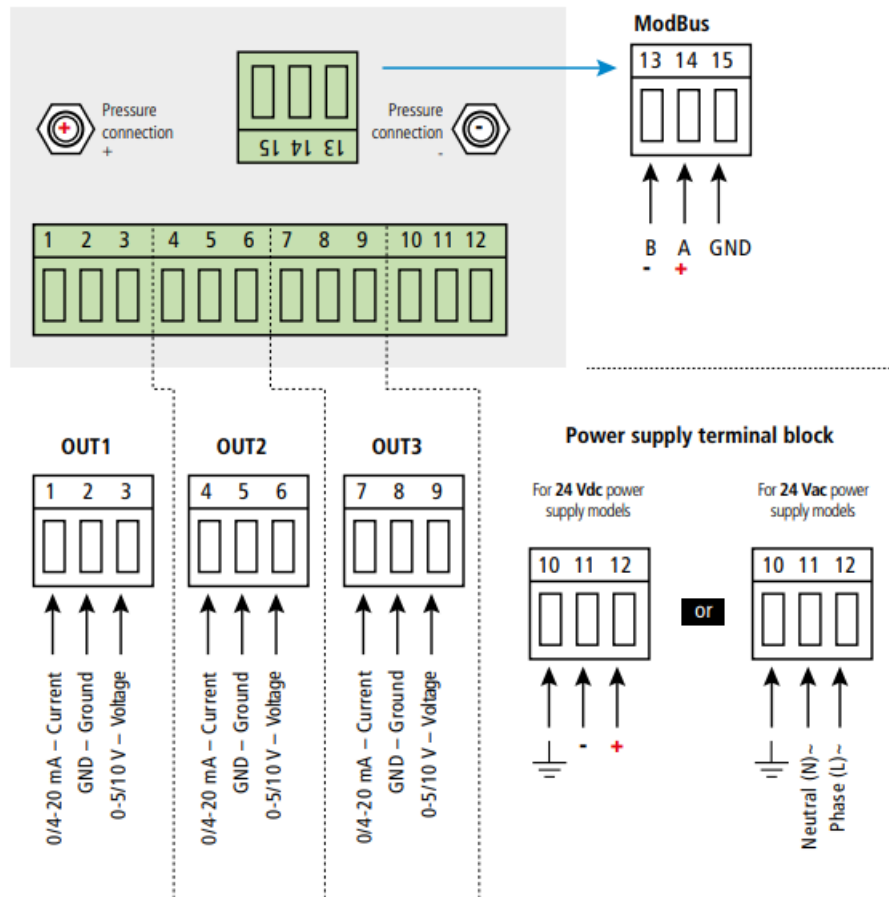
For your safety and in order to avoid any damage to the device, please follow the procedure described in this document and read carefully the notes preceded by the following symbol:



The following symbol will also be used in this document, please read carefully the information notes indicated after this symbol:



## Connections

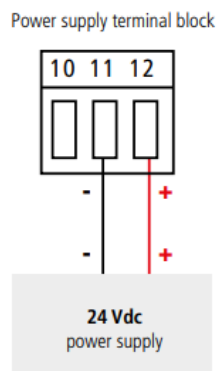


### Electrical connections as per NFC15-100 standard

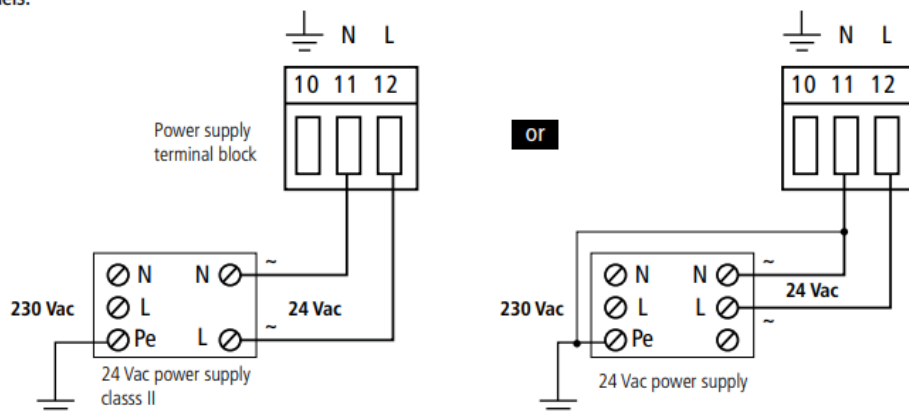


This connection must be made by a formed and qualified technician. Whilst making the connection, the transmitter must not be energized. The presence of a switch or a circuit breaker upstream of the device is compulsory.

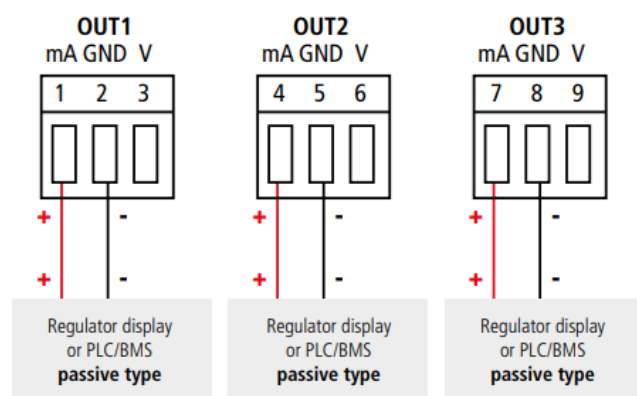
For 24 Vdc power supply models:



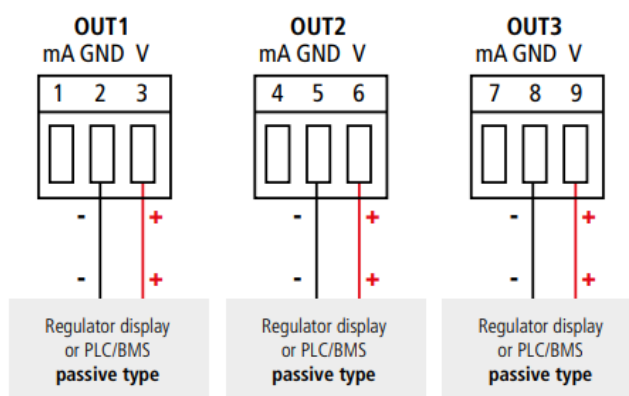
For 24 Vac power supply models:



Connection of the 0/4-20 mA current output:



Connection of the 0-5/10 V voltage output:



## Configuration

Class 310 transmitters allow you to set all the parameters managed by the transmitter: units, measuring ranges, alarms, outputs, channels... via the different methods shown below:

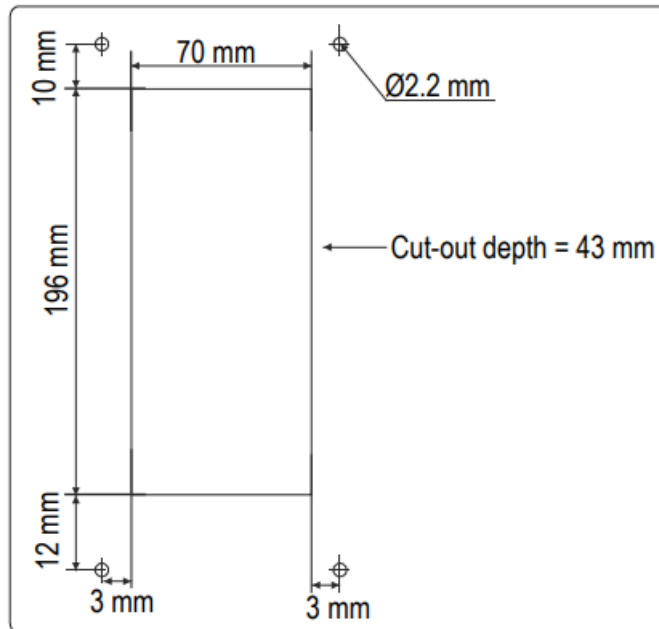
- Via the keypad, only on models with the display. A code-locking system for the keypad guarantees the security of the installation. See configuration manual.
- Via software (optional): simple and user-friendly. See LCC-S user manual.

## Mounting

To install a transmitter on a wall, make a cutting of 198 x 72 mm in the wall. Then drill 4 holes around the cutting as shown beside. Insert the transmitter into the wall and fix it with the 4 screws (supplied with the transmitter).

## Accessories

Please refer to the datasheet to get more information about available accessories.



**Maintenance:** Please avoid any aggressive solvents. Please protect the transmitter and its probes from any cleaning product containing formalin, that may be used for cleaning rooms or ducts.

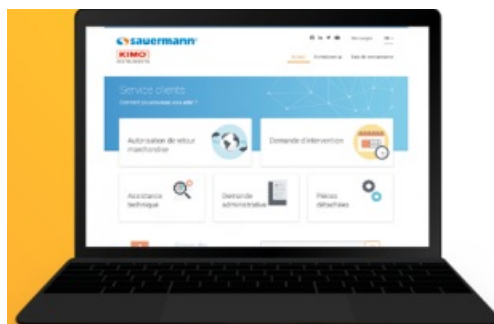
**Precautions for use:** please always use the device in accordance with its intended use and within parameters described in the technical features in order not to compromise the protection ensured by the device.

Download the full manual Télécharger le manuel complet Descargue el manual de usuario Scarica il manuale completo



<https://sauermanngroup.com/en-INT/technical-documents?search=cpe>

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## Documents / Resources

	<p><a href="#">sauermann CPE 310 Differential Pressure Sensor</a> [pdf] User Guide CPE 310, Differential Pressure Sensor, CPE 310 Differential Pressure Sensor, Pressure Sensor , Sensor</p>
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Manuals+.