

# FlowGuard 6280 v2

Advanced Pressure Transmitter



## Applications:

- Room pressure
- Laboratories
- Isolation room
- Industry
- Static pressure
- Clean rooms
- Hospitals
- Server rooms

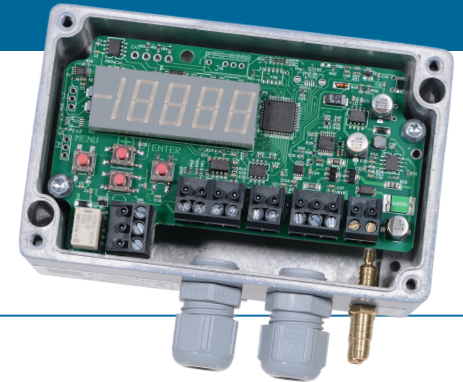
# PSIDAC

Care is in the Air

# FlowGuard 6280 v2

## 6280 v2 Features:

- LED-Display for setup
- Easy to install and configure
- Optional visible display
- High & Low Alarms
- Field selectable output
- Selectable Range
- Optional Alarm Relay
- Accurate, Stability & High Resolution
- Optional Auto calibration
- Modbus RTU RS485
- CPS Ready
- 2 separate analogue outputs: Both V and mA



The FlowGuard 6280 v2 is an updated version of 6280 with a faster, and better processor with higher resolution. The advanced processor transmitter is aimed for the standard pressure measurement tasks. It's designed with the user and installer in mind. The 6280 v2 eliminate many of the problems that traditional sensors suffer from and provide as much flexibility as possible.

The unit has field selectable features like 2 separate independent scalable signal outputs. A Volt (0-1, 0-5, 0-10, 1-10, 2-10V) and a Current (0-20, 4-20mA). That the customer can select the output ranges on in steps of 1Pa or 0.001 inch/H2O. And to simplify the installation, the 6280 v2 uses display and push buttons to make all the settings easy.

With these options in one sensor you can cover e.g. static duct pressure measuring (unidirect [U] sensor), or most situations for room pressure measurements. And if the 6280 v2 is ordered with Bidirectional sensor [B] it's possible to measure both positive and negative pressures. The analogue output will be at middle point of selected output range when pressure is at zero for the bidirect model.

The sensor has a silicone membrane and works with capacitive technique. It's extremely accurate and durable. To further improve it, auto calibration is an option for applications where any small drift over time is not accepted, as in hard to reach locations, or when the sensor is configured for very low pressures like  $\pm 5$  Pa.

The FlowGuard 6280 v2 also have 2 Alarms for Low and High pressures, and it can be ordered with a Alarm Relay.

And the pressure reading, alarms etc can be reached by BMS through the Modbus if wanted. The Modbus feature adds more value to the product since all settings and parameters can be reached from a CPS/BMS/Scada.

## Type designation:

Part no example: **6280B0250ZxxD**

Model 6280 (6280), Bidirect sensor (B) range +/- 250Pa (0250), with AutoZero (Zxx) option, and with a DIN rail mount (D), no special.

Model no.	Sensor	Range	Options	Mount	Special
<b>6280</b>	<b>B</b>	<b>0250</b>	<b>Zxx</b>	<b>D</b>	<b>xxx</b>
4pos	1 pos	4pos	3pos	1pos	3pos
	B/T/U	0065	Z/D/R	S/D	Special ver
	B=Bidirect $\pm$	<b>0250</b>	Z=AutoZero	S=Standard chassi	
	T=Thermal	1250	D=Display	D=DIN rail 35mm	
	U=Unidirect +	2500	R=Relay		

## Specifications:

Sensor models*	Max ranges
6280 B 0025	$\pm 25$ Pa
6280 B 0065	$\pm 65$ Pa
6280 B 0250	$\pm 250$ Pa
6280 B 0500	$\pm 500$ Pa
6280 B 1250	$\pm 1250$ Pa
6280 B 2500	$\pm 2500$ Pa
6280 U 0500	0-500 Pa
6280 U 2500	0-2500 Pa
6280 T 0250	0-250 Pa

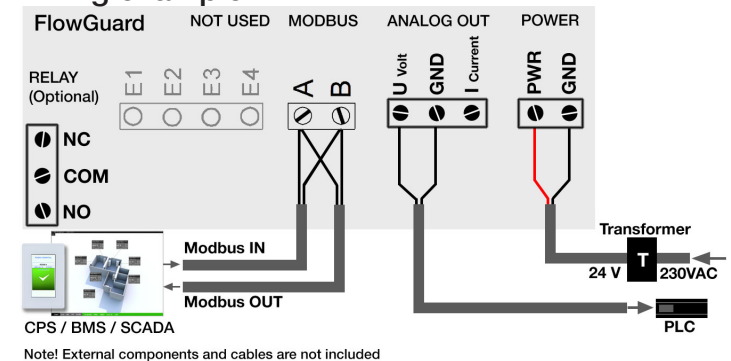
\*Other ranges and options available (contact us for information).

Power Supply	24 VAC/DC (18V-45V). Max 100mA (2,5W) @ 24VDC
Output Volt	Selectable 0-1, 0-5, 0-10, 1-10, 2-10V
Output Current	Selectable 0-20, 4-20mA
Resolution	12 bit digital output
Total error	$\pm 0,5$ Pa typical (500/ B250 Pa sensor)
Stability	Typical $>1$ Pa (1 year)
Time constant	0.05 - 20 seconds
Pressure connectors $\varnothing$	Dual diameters Dy 5 mm and $\frac{1}{4}$ "
Media	Air / Dry gas
Communication	Modbus RTU, 2-wire RS485
Relay (optional)	Load max 1A 24V
Temp**	Operation -10...+60°C. Storage -40...+60°C**
Housing and IP rating	Aluminium, IP 65 with mounted seal
Mounting	Standard chassi, or with optional DIN rail mounts on the back (35mm rail).
Dimension	125 x 90 x 60 mm
Weight	530 g

Features & specifications are subject to change without notice.

\*\* Temp range operation for model with AutoZero is -5 to 50°C. Contact us for a cold operation solution if needed.

## Wiring example:



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