

FlowGuard 6283 v2

Advanced Pressure Transmitter



Applications:

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

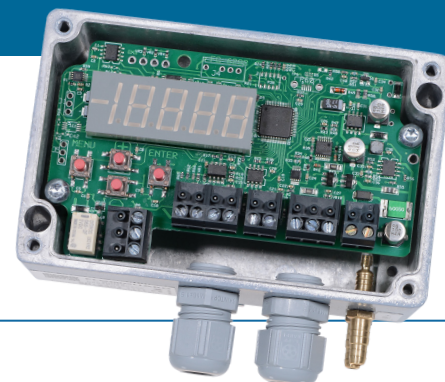
PSIDAC

Care is in the Air

FlowGuard 6283 v2

6283 v2 Features:

- LED-Display for setup
- Easy to install and configure
- Optional visible display
- Alarm & Door Switch delays
- No Isolation & Service mode
- Calculates Flow & AirChanges
- Field selectable output
- Selectable Range
- Optional Alarm Relay
- Dual Room modes
- Accurate, Stability & High Resolution
- Optional Auto calibration
- Modbus RTU RS485
- CPS Ready
- 2 set of High & Low Alarms
- 2 separate analogue outputs: Both V and mA



The FlowGuard 6283 v2 is an updated version with a faster and better processor with higher resolution. It's aimed for the advanced pressure, flow & airchanges measurement tasks. It's designed with the user and installer in mind. The 6283 v2 provide as much flexibility as possible in one transmitter.

The unit has 2 separate independent scalable signal outputs (a Volt and a Current). The output ranges can be scaled in steps of 1Pa or 0.001 inch/H2O. The 6283v2 have Positive and Negative Mode, and 2 alarms for each mode. Alarm delay and Door open delay etc. The 6283v2 can calculate and display flow or airchanges directly in the display, with high & low alarm levels. Alarm Relay is an option for a i.e. light tower or signal to BMS. And to simplify the installation, the 6283 v2 uses display and push buttons to make all the settings easy.

With all these options in one sensor you can cover e.g. static duct pressure measuring (unidirect [U] sensor), duct flow or airchanges (with flowstation) and most situations for room pressure measurements. And if the 6283 v2 is ordered with Bidirectional sensor [B] it's possible to measure both positive and negative pressures full scale. 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 ± 5 Pa.

The Modbus feature adds more value to the product since all settings and parameters (pressure reading, alarms, room mode selections etc) can be reached by a CPS / BMS / Scada system.

Type designation:

Part no example: **6283B0250ZxxD**

Model 6283 (6283), 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
6283	B	0250	Zxx	D	xxx
4pos	1 pos	4pos	3pos	1pos	3pos
	B/T/U	0065	Z/D/R	S/D	Special ver
	B=Bidirect \pm	0250	Z=AutoZero	S=Standard chassi	
	T=Thermal	1250	D=Display	D=DIN rail 35mm	
	U=Unidirect +	2500	R=Relay		

Specifications:

Sensor models*	Max ranges
6283 B 0025	± 25 Pa
6283 B 0065	± 65 Pa
6283 B 0250	± 250 Pa
6283 B 0500	± 500 Pa
6283 B 1250	± 1250 Pa
6283 B 2500	± 2500 Pa
6283 U 0500	0-500 Pa
6283 U 2500	0-2500 Pa
6283 T 0250	0-250 Pa

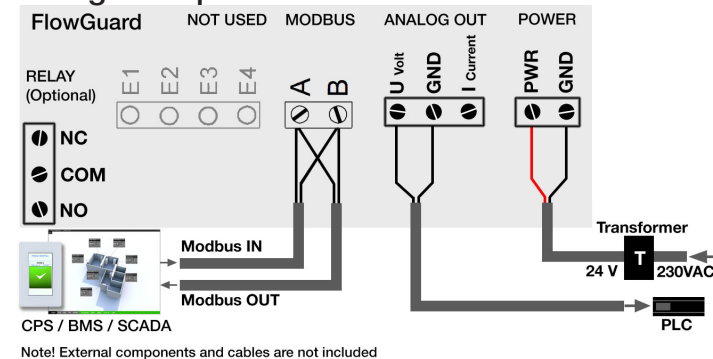
*Other ranges and options available (contact us for information).

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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