

FlowGuard 6280 II

MANUAL



Rev. 2,0

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1 General Note

Read this document carefully and get used to the operation of the device before you use it. Keep this document within easy reach near the device for consulting in case of doubt.

Mounting, start-up, operating, maintenance and removing from operation must be done by qualified, specially trained staff that have carefully read and understood this manual before starting any work.

The manufacturer will assume no liability or warranty in case of usage for other purpose than the intended one, ignoring this manual, operating by unqualified staff as well as unauthorized modifications to the device. The manufacturer is not liable for any costs or damages incurred at the user or third parties because of the usage or application of this device, in particular in case of improper use of the device, misuse or malfunction of the connection or of the device.

The manufacturer is not liable for misprints.

2 Warranty and limitation of liability

Warranty and limitation of liability

PSIDAC AB AB warrants that for thirty-six month following from delivery date from receipt by the buyer the products to be free from defects in material and workmanship. PSIDAC AB will repair or replace products to be found to be defected in material or workmanship without charge provided that:

- A the product has not been subject to accident, abuse, incorrect wiring not done by PSIDAC AB, neglect, improper installation or service or use in violation of instructions given by PSIDAC AB
- B the product has not been repaired or altered by anyone except PSIDAC AB
- C the serial number is readable
- D the defect developed during normal use, installation and service.
- E PSIDAC AB must be contacted in advance in order to a RMA. The product is returned to PSIDAC AB transportation prepaid.

The warranty is strictly limited to repair or replacement of the product. PSIDAC AB is not responsible for any consequential loss or damages, which may occur by use of the product.

3 Disposal notes

The device must not be disposed in the regular domestic waste.
Send the device directly to us (sufficiently stamped), if it should be disposed. We will dispose the device appropriate and environmentally sound.



4 Assignment of Flowguard 6280 II

FlowGuard 6280 is a processor-based pressure transmitter. This gives the advantage of simple calibration and setup and as an added benefit no potentiometers that can add errors and drift. The sensor technology gives excellent long-term/temperature stability. The range on the label of the unit indicates the factory calibrated range. Flowguard 6280 has an analog output, voltage or current, for both unidirectional and bidirectional pressure ranges. Every unit has been tested and calibrated before shipment.

FlowGuard 6280 is mounted in an aluminium case, IP54 with gasket mounted and the correct connections are used. Cables need to be connected in both cable glands (a plug should be installed in the port not in use) in order to fulfil the IP54 classification,.

Flowguard 6280 can be used together with Flow station.

5 Product specification

Power supply	15-24 V Ac/ c
Power supply	50 mA
Range selectable	free 1 pascal step
	Selctebła 0-10,1-10, 2-10, 0-5 Volt 0-20 2-20
Output	mA
Weight	505 g
Dimension	125*105*60
Media	Aur/ Dry gas

6 Applications

• Room pressure	• Clean rooms
• Flow measurement	• VAV Boxes
• Static pressure	• Alarm applications
• Computer centres	• Material handling

7 Menu-system

Push buttons:

SW1	Menu,
SW2	+, Up in the menu
SW3	-, Down in the menu
SW4	Enter

Configuration

1: ConF	Unit	Pasc, mb (mbar) "H2O
	Bidr	On/off Switches the sensor from Bi to Uni directional
	Addr	5 Address default
	bAUd	38400 Baud rate
	StoP	Stop bits
	Part	Parity

Alarm settings

2: LArn	H-LA	High alarm
	L-LA	Low alarm
	ALd	Alarm delay
	rFnc	Relay function, normal or inverted

Calibration

3: Cal	OFFS	Zero Calibration
	CalT	Incr, 24h,6h,1h, 30 (min) 15 (min) how often the calibration will be done Incr 10-20-40-80 minutes, then every 6 th hour
	Advanced menu	Will be accesed by pressing the + and enter buttons and holding them for about 5 ec
	SPAn	Span Calibration
	SPAU	Adjustment of analogue volt signal
	SPAI	Adjustment of analogue mA signal
	rELd	Reload factory reset.

Output configuration

4: OUtt	FdSP	Display filter damping
	FAnG	Analog filter damping
	dlr	Changes output from for ex 0-10 to 10-0
	OUtU	0-10, 1-10 0-5, 2-10 volt
	OUtI	4-20 mA, 0-20mA
	rAnG	Continues ly 1 pascal step / 0,01 step

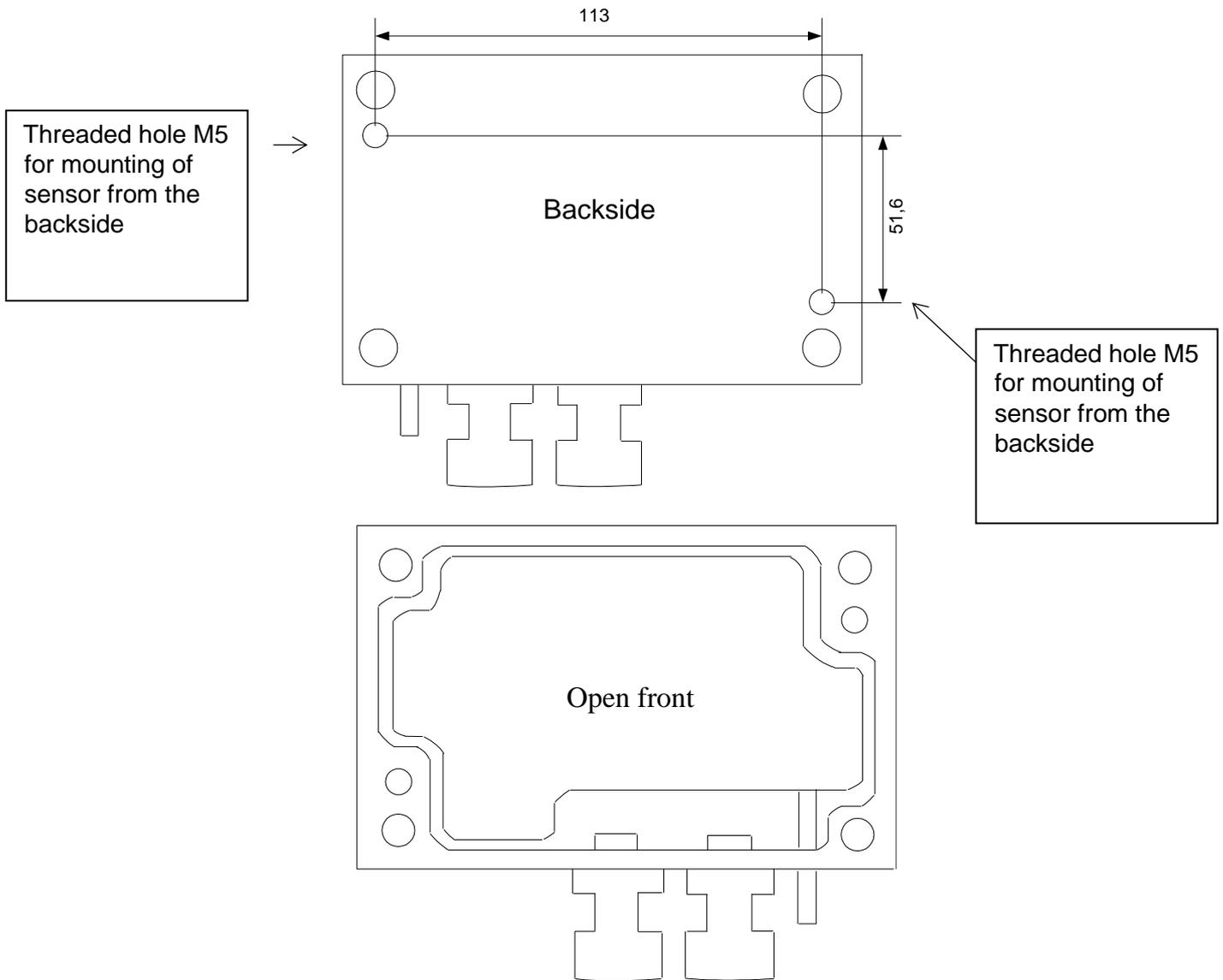
Setup: For setup press the Menu button, ConF is displayed, press Enter button to access this menu option. Select the desired menu value with the Enter button. Press Enter to accept. Then press Menu until all menu items have been displayed.

Range the ranges can be freely modified to suit your need. Select the range that you need, with +- button change the setting to match your need press enter to confirm.

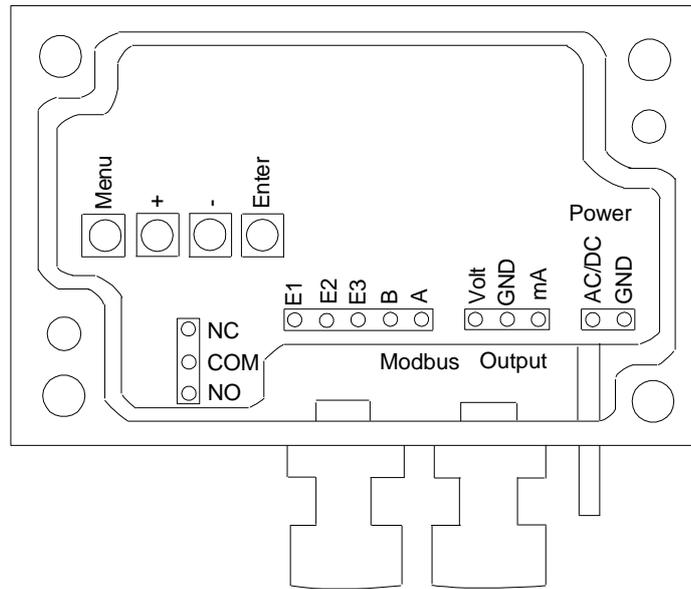
8 General installation instructions

Function: All settings are done with the help of the display and buttons. During normal operation the display shows the actual value.

Install the transmitter on a stable surface, vertical or horizontal. On the back of the transmitter there are two threaded holes to make installation easier. Connect the power supply and signal wires. Use maximum 1.5 mm² cables. See wiring diagram on last page. Connect hoses. The hose with the higher pressure to the port marked with a + and the one with lower pressure to the port marked with Ref.



9 Wiring



10 Calibration

Due to the special technique used in this instrument the instrument has a extremely low drift typical value is less than 1 pa/ year. But if you need to calibrate follow the following steps. Press menu button until OFFS is displayed, Press the – button until 0 is displayed then press the Enter button to confirm the calibration

SPAN calibration. Normally no need to perform but if, connect a reference instrument in parallel with the ports of the instrument, and adjust the unit with the +/- buttons until you have the same value on both instrument

11 Maintenance

FlowGuard has by its selection of pressure transmitter and design minimal need of maintenance. Cleaning, when necessary wipe of and clean with some non-abrasive cleaner. Flowstation can depending of type and location need cleaning. This can be done by removing it and cleaning it or by using compressed air and blowing through the holes. If the flowstation can handle detergents squirt inside the transmitter and the use compressed air to blow it clean. This is of course assuming its ok to do in the particulate installation. Make sure all detergents are removed from the inside of the flowstation to assure that no fluid or dirt is entering the sensor. It's also a good time to check the zero of the instrument and when needed zerocalibrate the instrument

12 Specification

Range*

6280_B_2500	±2500
6280_1250	0-1250
6280_500	0-500 Pa
6280_B_250	± 250 Pa
6280_B_500	± 500 Pa
Total error*	± 0,5 pa typical (500/ B250 pa sensor)
Stability	Typ. >1 pa.(1 year)
Time constant	0.05 - 20 seconds
Output	0-5, 1-5, 0-10, 1-10, 2-10 V 4-20mA, 0-20 mA
Output Range	0-250 range dependent in step of 1 pascal ± 5,10,25,50,75,100,125,250,300,500 Range dependent
Resolution	10 bit digital output
Supply	15-24 V AC/DC, 50 mA
Operating temp	-10C- +60C
Storage Temp	-40C -+60C
Housing	Aluminium
IP rating	IP 65 with mounted seal
Media	Air/ dry gases
Dimension	125x90x60 mm
Weight	530 g
Pressure connector	Dual diameters Dy 5 mm / ¼"
Communication	Modbus RTU

* All models are available with Inch, Specification subject to change without notice.

* Other ranges and options available, all sensors have

13 Order key

Order key, model