FlowGuard 6280-series

Comparison table

What sensor should I use?

There are several models in the FlowGuard 6280 series. Below is a table to see specific functions for each model. We also explain som of the terminology used with pressure sensors and the industry.

Comparison table

Model	Description	Units	Flow ACHP	Auto zero*2	Relay*2	Single mode*3	Dual mode*3	Flow	CPS model
6279	Uni or Bi-directional sensor*1, ana-logue out, modbus.	Pa, mBar, "H2O		X					
6280	Uni or Bi-directional sensor*1, analogue out, modbus. CPS ready, single mode alarm and alarm relay (option).	Pa, mBar, "H2O		X	X	X			6020 6040
6282	Uni or Bi-directional sensor*1, analogue out, modbus. CPS ready, single/dual mode alarm and alarm relay (option).	Pa, mBar, "H2O		X	X	X	X		6021 6041
6283	Uni or Bi-directional sensor*1, analogue out, modbus. CPS ready, single/dual mode alarm and alarm relay (option). Flow, velocity and ACPH calculations.	Pa, mBar, l/s, m/s, ACPH	X	X	X	X	X	X	6021 6041

*1 Unidirectional is when the sensor measure on only one side of zero. Bidirectional is when sensor measure on both sides of zero.

*2 Optional, auto Zero [Z], Relay [R], selected at order of sensor.

*3 Single mode and Dual mode is CPS (Central Panel System) related room modes, to handle Positive, Negative, Neutral (door open) and Service modes.

Explanations:

Uni/Bidirectional and Single or Dual mode: In general there are pressure sensors that can measure both positive and negative pressures (-250 to +250 Pa). They are called Bi-directional sensors [B]. Sensors that only measure on one side of zero (0-250Pa) are named Unidirect [U] sensors. The Bidirectional sensors have the analogue out signal in the middle at zero pressure (middle of span). **Single mode** and **Dual mode** is our CPS (Central Panel System) related room modes. The CPS handle room modes like Positive, Negative, Neutral (door open) and Service mode.

Example 1 Dual Mode: You work with Positive and Negative pressure and need High & Low alarms on both sides of zero (totally 4 alarm levels). You select a Bidirectional sensor for an operation room, where the staff can switch the room pressure depending on patients, from Positive to Negative pressure. In this case you need both Positive High & Low alarm, and Negative High & Low alarm. Order sensor part no. 6282B0250ZRx5 for options with auto Zero and alarm Relay.

Example 2 Single mode: You measure only positive *or* negative pressure, and the sensor only has **one** set of High & Low alarm that can be set to work on either Positive or Negative pressures. The CPS can not swap room mode from Pos to Neg. Order sensor part no. 6280B0250ZRx5 for options with auto Zero and alarm Relay.

Example 3: You want to measure negative pressures only (static duct pressure in exhaust duct), then you select a Unidirect sensor and either swap connected measuring tubes so you will have a negative pressure measured as a positive pressure. You will not get a - sign in the display since sensor thinks it's a positive pressure though. Order sensor part no. 6270U0500xxx5. Or you get a Bidirectional sensor that actually can measure negative pressure and the sensor indicates negative pressure in the display. Order sensor part no. 6270B0500Dxx5 with optional display.

CPS: The sensor can communicate with the PSIDAC dynamic CPS-panel system.

Alarms & Relay: The 6279 doesn't have any alarm and no alarm relay. 6280 has got one set of alarms, 6282 and 6283 have 2 Positive alarms (high & low) and 2 Negative alarms (high & low). All sensors can be ordered with an optional alarm relay [R].

Flow: The sensor also has l/s, m/s and ACPH directly, you enter duct diameter or room volume to get calculated values.