



kintech
engineering



DATASHEET

SETRA 276

PRESSURE

The Setra model 276 is a stable pressure sensor based on the proven Setraceram™ sensing element.

SETRA 276 | PRESSURE

DESCRIPTION

The Setra model 276 is a stable transducer based on the proven Setraceram™ sensing element. The glass fused ceramic capacitive sensing capsule is the heart of Setra's environmental pressure transducers because of its inherent thermal stability, low hysteresis and fundamentally simple design.

The standard unit has a convenient mounting bracket and simple 0.32 cm tube fitting for quick installations.

Note: This sensor comes with an optional plastic enclosure for installation in the top of the measurement masts (e.g. 115 meters).

APPLICATIONS

Meteorological monitoring and wind and solar resources assessment.

FEATURES

General

Excitation → Output	12 VDC (9.0...14.5 v) → 0.1...5.1 VDC & 5 VDC (4.9...7.1 v) → 0.5...4.5 VDC
Power consumption	0.2 W (24 VDC)
Operating temperature	-18...+79°C
Long term stability	0.25% FS/6 months
Case	Stainless steel



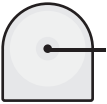

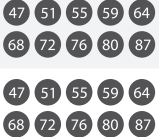

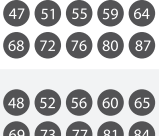

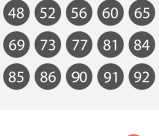
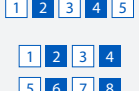
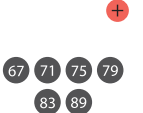




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CABLE RECOMMENDATION

Signal cable up to 10m: **4x0.5 mm² + shield**.

Signal cable from 10m up to 150m: **4x2.5 mm² + shield**. For longer cable, please consult sensor manufacturer.

SENSOR WIRING TABLE

Sensor Model	Manufacturer Cable Colors			Kintech Cable (>10m) Colors 2.5mm ²		Orbit 360			EOL Zenith	
						Section	Terminal	Type	Section	Terminal
	○	White	Out (-)		Yellow-Green	Analog Channels		(-)	Analog Inputs	
	●	Black	Exc (-)	●	Black	Analog Channels		(-)	BAT	
	●	Green	Out (+)	●	Grey	Analog Channels		Signal	Analog Inputs Extra Analog	
	●	Red	Exc (+)	●	Brown	Power Input			BAT	
		Shield			Yellow-Green (thin 0.5mm ²)	Power Input			BAT	

Note: *Output/OUT: Pulsating Bat+ with current limited (2A). Only 1 sensor must be powered.

REQUIRED DATA LOGGER VERSION

Minimum data logger required: **ORBIT 360 BASIC PLUS**.

Minimum **firmware** required: **any**.

HOW TO CONFIGURE IN ATLAS

Start Atlas and open the data logger you are working on. Now go to *Site settings* and scroll down to the *Channels* section and select the following type and model:

- Group: Analog channels
- Sensor Type: Pressure
- Sensor Model: **Setra276 800-1100 12V**
- Group: Analog channels
- Sensor Type: Pressure
- Sensor Model: **Setra276 600-1100 12V**

Important! Please make sure you are working with the latest version of Atlas. To check for new updates click the *Check for updates* button in the left-hand menu located in the main dashboard.



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HOW TO CONFIGURE THIS SENSOR ON SITE

We recommend performing the entire sensor configuration using Atlas at the office before installing sensors onsite. Once the sensor is correctly setup in Atlas, use the *Upload settings* tool, to upload the sensor configuration to the data logger.

In case you are already on site and need to configure the sensor directly on the data logger, follow these steps:

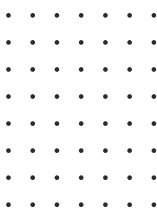
1. Turn on the data logger.
2. Using the keypad on the data logger, navigate the menu until you see *Sensor model*, then click the “right arrow” on the keypad.
3. Now scroll down to the channel you are going to connect the sensor to, and click the “right arrow” on the keypad.
4. Now click “Set” on the keypad and scroll up in the menu to set the sensor model type according to the table here below. Once you have found the correct sensor model, click the “right arrow” key twice to select it and save.
5. Click the “left arrow” several times to go back to the main menu.

Data logger model	Firmware version	Sensor model type on data logger		
		Magnitude	Number	Name
ORBIT 360	any	Pressure	31	PRES SETRA 276 800
		Pressure	34	PRES SETRA 276 600
EOL ZENITH	any	Pressure	31	PRES SETRA_276_800
		Pressure	34	PRES SETRA_276_600

HOW TO CONFIGURE IN EOL MANAGER

Open EOL Manager and go to *Settings* of the data logger you are working on. Open the *Inputs* tab and select the following type and model:

- Group: Analog Inputs
- Sensor Type: Pressure
- Sensor Model: **Setra276 800-1100 12V**
- Sensor Model: **Setra276 600-1100 12V**



Last modified: 24.09.2021