



kintech
engineering



DATASHEET

K611PB - AN

PRESSURE SENSOR

The K611PB-AN pressure sensor is a robust compact sensor specifically designed to meet the requirements in meteorological and wind resource assessment applications.

K611PB-AN | PRESSURE SENSOR WITH ANALOG OUTPUT

DESCRIPTION

The K611PB-AN pressure sensor is a robust compact sensor specifically designed to meet the requirements in meteorological as well as wind and solar resource assessment applications.

The K611PB-AN is accurate and stable with a long term stability of less than ± 1.0 mbar (specified in the full operating pressure range 0...+85 °C).

Main features and advantages of the K611PB-AN pressure sensor:

- Low energy consumption (1.8mA)
- Wide power supply range (3.3...30V)
- Output range 600...1100mb*
- Analog output
- Competitive pricing

* Can be installed at any altitude above sea level

APPLICATIONS

Wind resource assessment, solar resource assessment, meteorology, environmental monitoring.

FEATURES

Technical Data

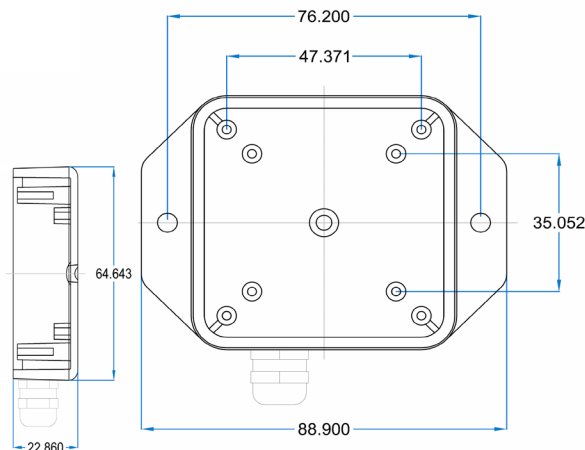
Pressure range	600...1100 mbar
Analog range	0... 5 V
Low noise	0.05 mbar in standard mode
Overpressure	10000 mbar
Accuracy pressure	± 0.52 mbar
Resolution	0.00075mbar
Linearity	< 0.04 mbar
Hysteresis	± 0.01 mbar
Repeatability	0.03% FS
Long term stability	± 0.16 mbar, 12 months (for the full range operating pressure range)
Response time	1s
Type of transducer	Measurement based on proven sensing principles
Supply voltage	6...30 VDC
Input current	1.8 mA
Operating & storage temperature	-40...+85 °C
Sensor protections	Overvoltage & misswiring
Enclosure type	ABS
Weight	94 g with cable 70 cm long

The barometric pressure, in mbar, can be calculated from the measured Volts according to the following equation:
Pressure = slope*V + offset = 100*V + 600



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SENSOR DIMENSIONS



CABLE RECOMMENDATION

Signal cable up to 150m: **4x0.25 mm² + shield**. For longer cable, please consult sensor manufacturer.

SENSOR WIRING TABLE

Sensor Model	Sensor Pin		Kintech Cable Colors		Orbit 360			EOL Zenith	
					Section	Terminal	Type	Section	Terminal
Us (-)	Supply (-)		Brown	Analog Channels		(-)	BAT		
SIG	Pressure (+)		White	Analog Channels		Signal	Analog Inputs Extra Analog		
Us (+)	Supply (+)		Green	Analog Channels		*(+)	BAT		
REF	Pressure (-)		Yellow	Analog Channels		(-)	Analog Inputs		
	Shield		Yellow Green	Power Input	BAT		BAT		

Note:

Data logger hardware version < 3, (+) = Bat+ with current limited (12mA). Only 1 sensor must be powered.

Data logger hardware version ≥ 3, (+) = Bat+ with current limited (50mA). Only 1 sensor must be powered.

In case you are using data loggers from other manufacturers or taking measurements directly from the sensor, the US(-) and REF wires must be connected to the same electrical point on the logger/measurement side (NEVER on the sensor side). Note that this additional wiring is not needed for either the Orbit 360 and EOL Zenith data loggers as they already include this internal connection.

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: Voltage
- Sensor Model: **Volts**
- Slope: 100
- Offset: 600

For more information please contact support@kintech-engineering.com or visit our website www.kintech-engineering.com

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