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K611PB-AN
Pressure sensor
Range: 600 - 1100 mb / Supply: 6 - 30 VDC
Output: Voltage

Supply (12V)	
Supply (-)	
Signal (+)	
Signal (-)	
Shield	

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 ºC).

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

- Low energy consumption (1.8mA)
- Wide power supply range (6...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, enviromental 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
Long term stability	±1.0 mbar, 12 months (specified in the full range operating pressure range)
Supply voltage	6…30 VDC
Input current	1.8 mA
Operating temperature	-40…+85 ºC
Storage temperature	-40…+85 ºC
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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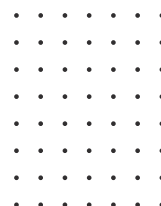
K611PB-AN | PRESSURE SENSOR WITH ANALOG OUTPUT
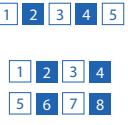
SENSOR DIMENSIONS
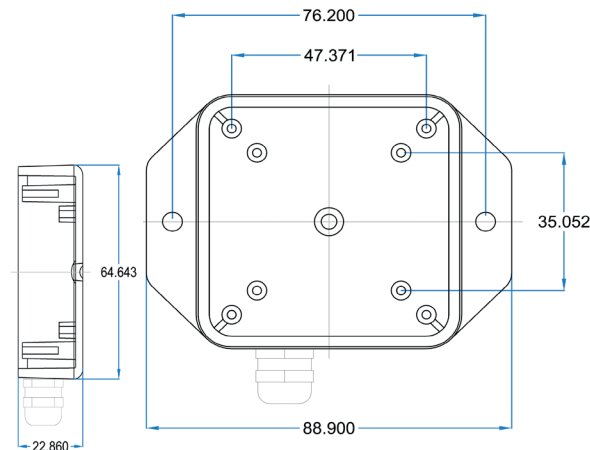
CABLE RECOMMENDATION

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	47 51 55 59 64 68 72 76 80 87	(-)	BAT	−
	SIG	Pressure (+)	◯	White	Analog Channels	48 52 56 60 65 69 73 77 81 84 85 86 90 91 92	Signal	Analog Inputs Extra Analog	1 2 3 4 5 1 2 3 4 5 6 7 8
	Us (+)	Supply (+)	⬤	Green	Analog Channels	49 53 57 61 66 70 74 78 82 88	*(+)	BAT	+
	REF	Pressure (-)	⬤	Yellow	Analog Channels	47 51 55 59 64 68 72 76 80 87	(-)	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.

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

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

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