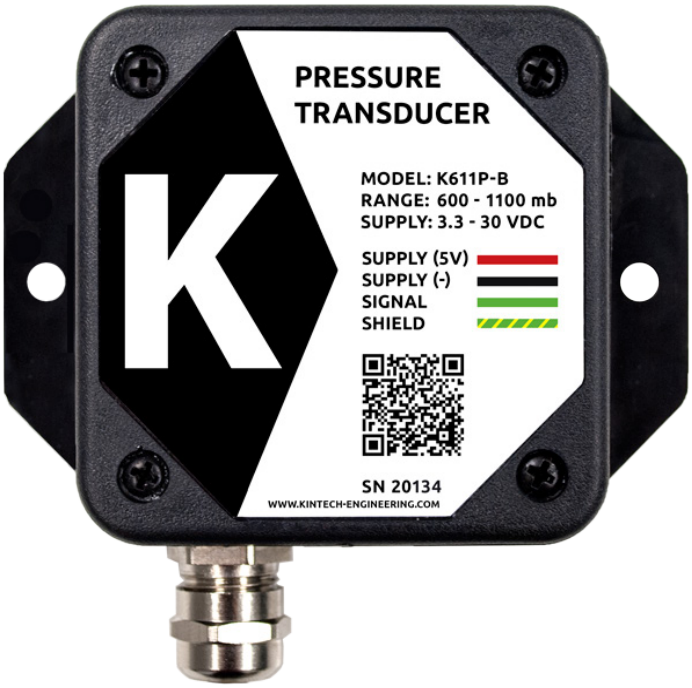
BAROMETRIC PRESSURE TRANSDUCER

K611P-B



ORDER - Nº	PRESSURE RANGE	ELECTRICAL SUPPLY	MODEL IN EOL MANAGER
K611P-B	600-1100 mbar	5 VDC	**K611P**

APPLICATION

The K611P-B pressure sensor is a robust compact sensor specifically designed to meet the requirements in meteorological and wind resource assessment applications.

The sensor offers high performance, easy installation and since the output is in frequency it allows the use of longer cables without any signal loss. A great advantage for wind resource assessment, where pressure sensors are regularly installed at 80 m to 140 m.

The K611P-B is accurate and stable with a long term stability of less than ±1.0 mbar (specified in the full operating pressure range -40…+85 °C).

Avda. Anselmo Clavé Nº 37 - 45 · 50004 Zaragoza · SPAIN
Tel. (+34) 976 221 789
info@kintech-engineering.com
www.kintech-engineering.com

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TECHNICAL DATA

CHARACTERISTIC	DESCRIPTION / VALUE
Pressure range	600…1100 mbar
Low noise	0.05 mbar in standard mode
Overpressure	10000 mbar
Accuracy pressure	±0.12 mbar
Long term stability	±1.0 mbar, 12 months (specified in the full range operating pressure range)
Supply voltage	3.3…30 VDC
Input current	1.8 mA
Operating temperature	-40…+85 °C
Storage temperature	-40…+85 °C
Weight	164 g with cable 2 m long

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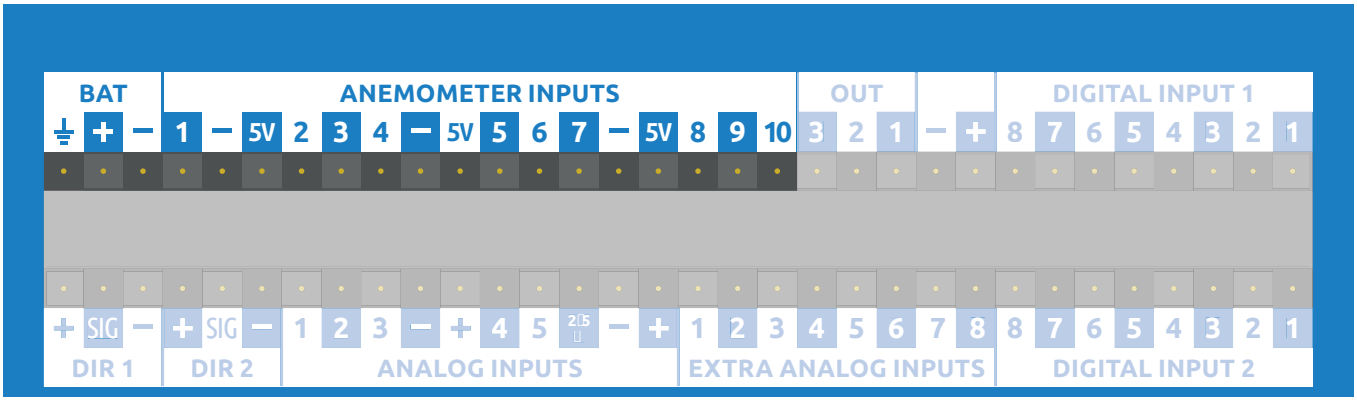
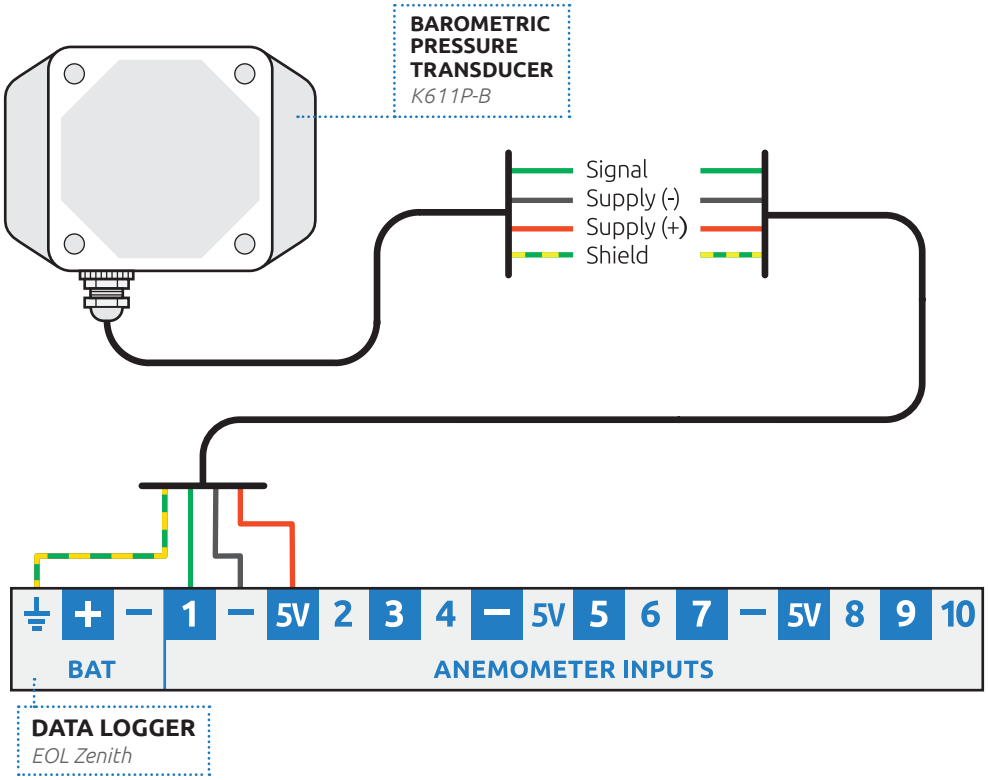
INSTRUCTIONS

Use the following input channels on the logger to connect this sensor. See highligted input channels marked here below. The wire colors used in the connection diagram below only applies in case the cable is supplied by Kintech Engineering.





SENSOR PIN DESCRIPTION		DATA LOGGER INPUT CHANNEL	
Signal	Signal	Anemometer Inputs	1
Supply (-)	Supply (-)	Anemometer Inputs	(-)
Supply (+)	Supply (+)	Anemometer Inputs	5V
Shield	Shield	BAT	GND

KINTECH COLOR CODES	
Green	
Black	
Red	
Yellow - Green	

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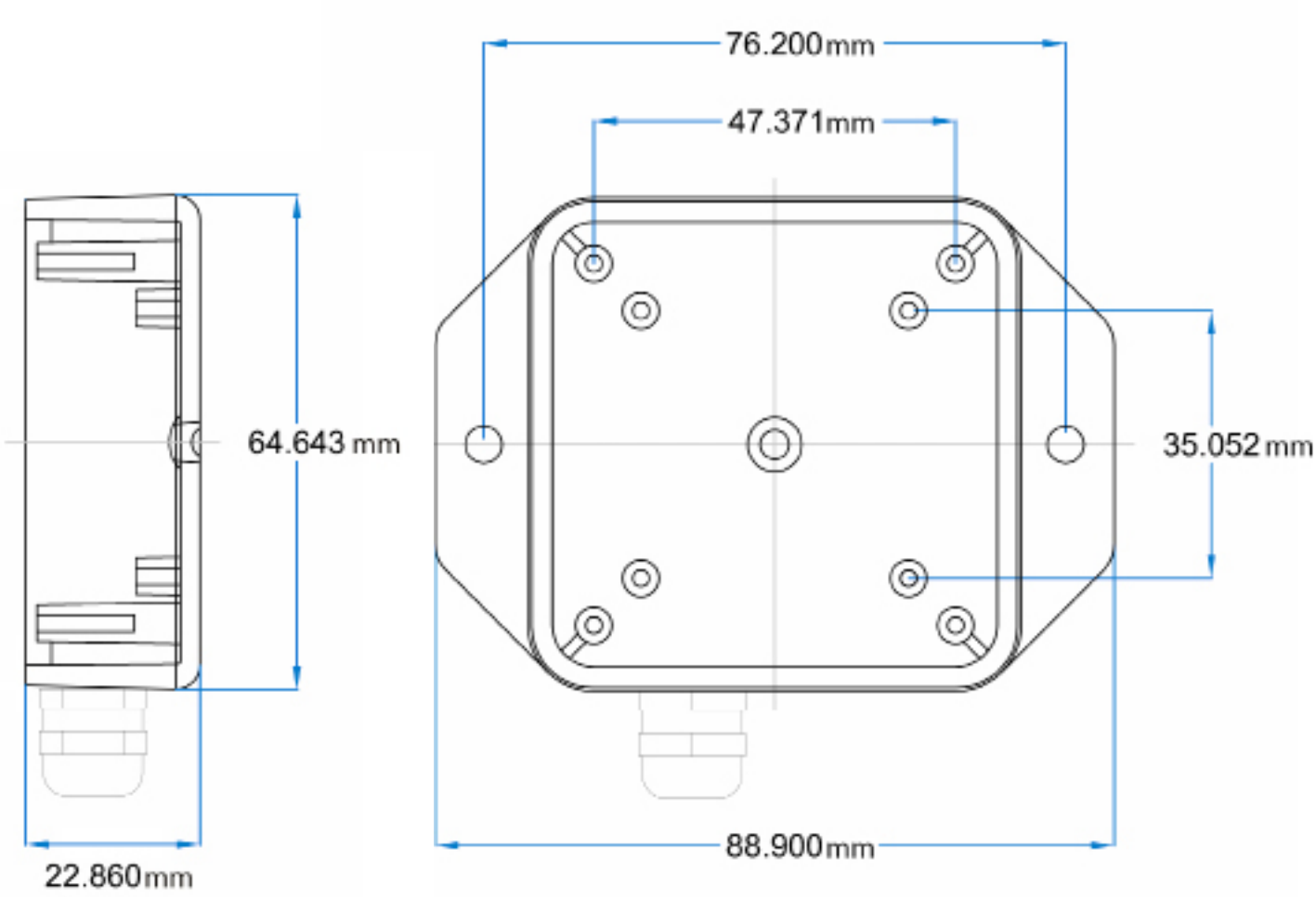
SENSOR DIMENSIONS



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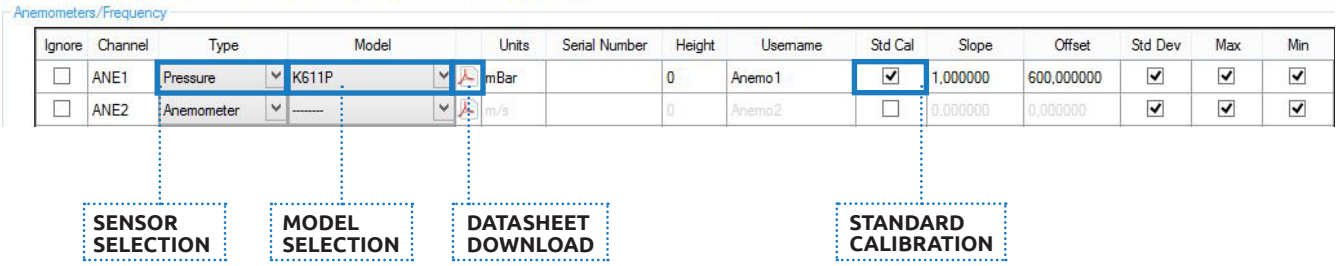
HOW TO CONFIGURE THIS SENSOR IN EOL MANAGER

Open EOL Manager and go to the data logger you are working on. Open the "inputs" tab and select the following type and model:

- **Section**: Anemometers/Frequency
- **Type**: Pressure*
- **Model**: K611P

*This sensor should be configured on one of the channels in the Anemometers/Frequency in EOL Manager.

Calibration values: Tick the "Std Cal" to use this sensors standard slope and offset. If you have an independent calibration certificate for this sensor insert the slope and offset values from this certificate.



IMPORTANT

- After configuring the sensor in EOL Manager make sure to upload the configuration file to your EOL Zenith data logger. See the "Quick User Guide" how to upload configuration files to the data logger.
- All sensor wire shields must be connected to the data logger GND terminal.
- The data logger should always be connected to a separated ground rod. **Not** to the lightning rod of the tower.
- The three 5V power supply outputs on the data logger terminals are completely independent and not associated to any of the signal inputs. The three 5V outputs can therefore be distributed according to needs.
- To store data such as Std Dev, Max and Min you should tick the corresponding boxes next to each anemometer channel when setting up your site file. Otherwise these parameters will not be stored.
- This pressure sensor should be connected to one of the anemometer channels on the data logger.
- In the example diagram shown before, the "Signal" wire from the sensor is connected to the "ANEMOMETER INPUTS 1". It can however be distributed on all "ANEMOMETER" channels according to needs. Avoid connecting the "Signal" wire of this sensor to the power supply.
- Cable recommendation:

Sensor	Signal cable 3x0.5mm^2

Last modified: 29.10.2015

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