

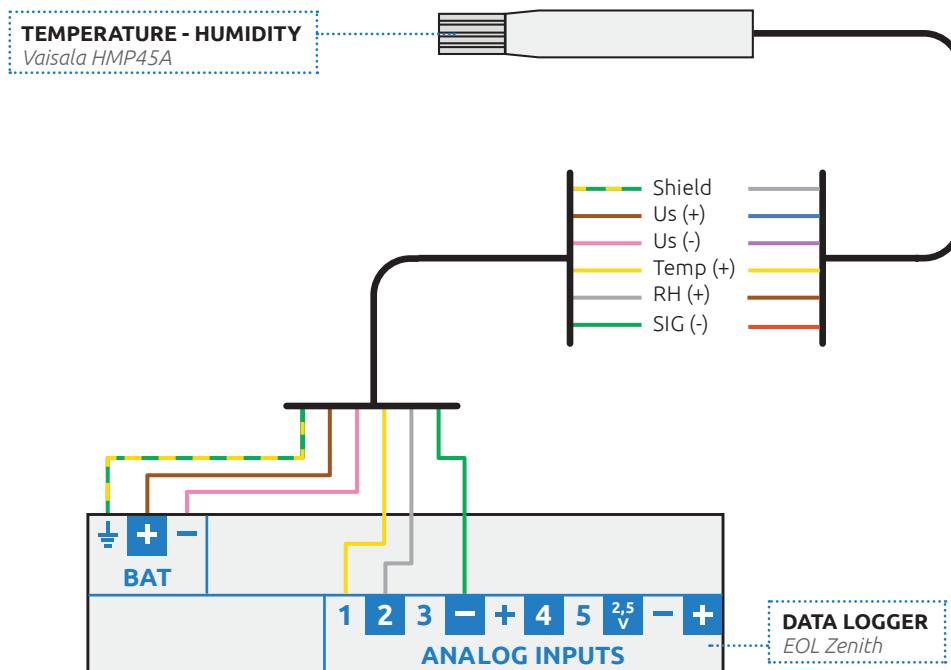
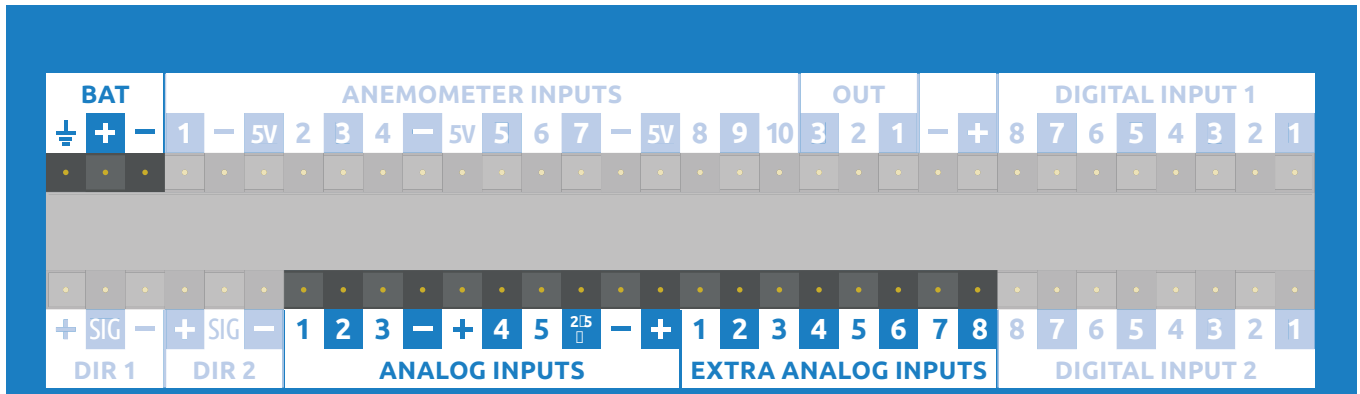
TEMPERATURE - HUMIDITY

VAISALA HMP45A

INSTRUCTIONS

Use the following input channels on the logger to connect this sensor. See highlighted 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.

For additional wiring & shielding information see the chapter "IMPORTANT" at the end of this dataheet.



SENSOR PIN DESCRIPTION			DATA LOGGER INPUT CHANNEL	
Us (+)	Us (+)	Supply (+)	BAT	(+)
Us (-)	Us (-)	Supply (-)	BAT	(-)
Temp (+)	Temp (+)	Temperature (+)	ANALOG INPUTS	1
RH (-)	RH (+)	Rel. Humidity (+)	ANALOG INPUTS	2
SIG (-)	SIG (-)	Reference	ANALOG INPUTS	(-)
Shield	-	Shield	BAT	GND

KINTECH COLOR CODES		MANUFACTURER COLOR CODES	
	Brown		Blue
	Pink		Violet
	Yellow		Yellow
	Grey		Brown
	Green		Red
	Yellow - Green		Grey

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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:** Analog Inputs
- **Type1:** Temperature
- **Model:** VAISALA HMP45A
- **Type2:** Rel.Humidity
- **Model:** VAISALA HMP45HR

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.

Ignore	Channel	Type	Model	Units	Serial Number	Height	Username	Std Cal	Slope	Offset	Std Dev	Max	Min
<input type="checkbox"/>	ANL1	Temperature	VAISALA HMP45A	°C		0	Analog1	<input checked="" type="checkbox"/>	100.000000	-40.000000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	ANL2	Rel. Humidity	VAISALA HMP45HR	%		0	Analog2	<input checked="" type="checkbox"/>	100.000000	0.000000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	ANL3	-----	-----	-----		0	Analog3	<input type="checkbox"/>	0.000000	0.000000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.
- 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.
- The “Temp (+)” wire and the “RH (+)” wire from the sensor should be connected to two separate “ANALOG” channels.

■ Description example diagram shown before:

TEMPERATURE - HUMIDITY VAISALA HMP45A	DATA LOGGER EOL ZENITH
Temp (+)	ANL 1
RH (+)	ANL 2

They can however be distributed on all “ANALOG” and “EXTRA ANALOG” channels according to needs.

■ Sensor accuracy is ±0.2 °C at 20 °C and ±2% in the measuring range 0...90% rh. Recorded data outside of this mentioned measuring range might be invalid.

■ Cable recommendation:

Sensor	Signal cable 6x0.5 mm ²
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Last modified: 19.05.2017