

Vaisala and CS500 Humidity/Temperature Sensors

Sensor Application Note #1

Overview

This Sensor Application Note provides additional information to wire and configure the Vaisala Humitter® 50U/50Y and Campbell Scientific CS500 temperature and humidity probes. Both types of probes utilize the Intercap® humidity sensor from Vaisala. The Vaisala 50U does not include the temperature output function.

More information on these sensors may be found in the Vaisala documentation or the Campbell CS500 manual.

Wiring

Description	50U Color	50Y Color	CS500 Color	Non-MultiSensor	MultiSensor	Direct
Temp Out	Violet (NA)	Violet	Black	1H	1H	2H
RH Out	Brown	Brown	Brown/White	1L	1L	2L
Power In (Vs)	Yellow	Yellow	Red	2H	2H	12V
Ground (GND)	Green	Green	Green	2L	2L	G
Shield	Bare	Bare	Bare	S	S	G

Configuration

Type	Make	Model	Instruction File	Description	Output Units
Humidity	Vaisala	Humitter	Vaisala_humitter.ins	Vaisala 50U/50Y	RH (0-100%)
	Campbell	CS500	Cs500.ins	Campbell CS500	RH (0-100%)
Direct	Vaisala	Humitter	Vaisala_humitter.ins	Vaisala 50U/50Y	RH (0-100%)

For direct connections of the Campbell CS500 use the **Direct | Vaisala | Humitter** configuration. To read the temperature output of the Vaisala 50Y (the 50U does not include the temperature output) use the Upper Channel types **Vaisala-°C** and **Vaisala-°F**.

These sensor configurations are included in shipments of MultiLogger beginning with v2.0.10. Contact Canary Systems if you require assistance configuring them with older versions of the software.

Non-MultiSensor Multiplexer Wiring

