SAVANT

Sensor Module with Four 10K Thermistor Inputs Quick Reference Guide

Box Contents

- (1) HVAC 10K Sensor Module (CLI-10K4IN)
- (2) 3 Position Screw Down Plug-In Terminal Block (028-0736)
- (1) 6 Position Screw Down Plug-In Terminal Block (028-0737)
- (1) 6 Position Screw Down Plug-In Terminal Block (028-9352)
- (1) Product and Regulatory Insert (009-1703)

Supported Sensors (available on the Savant Store)

Remote Temperature Sensor - Flush Mount (SST-TEMP1)
Outdoor Remote Temperature Sensor (SST-OTEMP1)
PLENOM Remote Sensor - Commercial (CLI-PLEN1C)
PLENOM Remote Sensor - Residential (CLI-PLEN1R)
SLAB Remote Sensor (CLI-SLAB1)

Specifications

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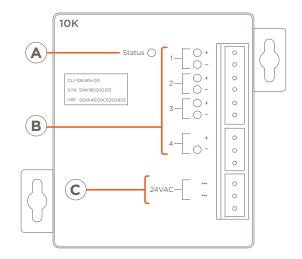
Environmental					
Temperature	9 32°	to 104° F (0°	to 40° C)		
Humidity	10%	10% to 90% Rel Humidity (non-condensing)			
Dimensions and Weights					
	Height	Width	Depth	Weight	
CLI-10K4IN	3.77 inch (9.58 cm)	3.16 inch (8.03 cm)	.91 inch (2.3114 cm)	< 1 lbs (< .5 kg)	
Shipping	6.25 inch (15.88 cm)	4.8 inch (12.19 cm)	1.25 inch (3.175 cm)	< 1 lbs (< .5 kg)	
Power					

input Power	24 V AC (19.2 - 20.0 V AC)			
Max Current Draw	.1 amps (rms)			
Maximum Wiring Distances				
RS-485	Up to 1000 feet (304.8 meters) cumulative.			
	#24 AWG - 20 feet (6.10 meters)			
	#20 AWG - 57 feet (17.37 meters)			
Power	#18 AWG - 90 feet (27.43 meters)			
	#16 AWG - 143 feet (43.59 meters)			
	#14 AWG - 228 feet (69.49 meters)			

241/ AC (19.2 - 28.81/ AC)

Regulatory				
Safety and	FCC Part 15			
Emissions	F©			
Contains FCC ID:	2AEHU-MESHTEK-H52			
Contains IC:	20059-MESHTEK52			
RoHS	Compliant			
Minimum Supported Release				
Climate Config App	Version 1.1.2			

Top Panel



Blinking Green

RS-485 communications is not established. Once powered is applied, it can take up to 20 seconds to establish communications.





HELPFUL! If communications was established and subsequently lost, the LED will stay solid for about 1 minute before it starts blinking.



RS-485 communication is established and module is communicating with thermostat.

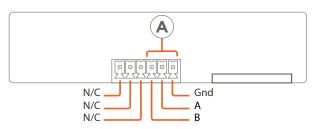


Thermistor inputs 1-4 - Connect one thermistor per port (1-4). When wiring the thermistors, polarity is not observed.



24V AC input - Connect 24V AC from HVAC transformer or similar to power the module. Input power is an AC signal so polarity is not observed.

Left Side Panel



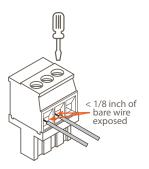


RS-485 port - As shown in the image above, the right three pins connect to the RS-485 connections in the thermostat. No connections are made to the leftmost 3 pins. Refer to the RS-485 Connections section for more information on wiring.

Making Connections

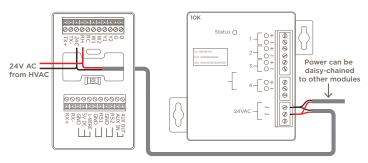
When making connections, follow the guidelines set below to ensure a safe and secure connection.

- With a small slotted screwdriver, turn the screws on the connector counterclockwise (CCW) until the silver crimps open enough to slide a wire into the square slots.
- Strip back insulation on each wire to 1/4 inch and insert the stripped wire into the proper connection.
- Turn the screw clockwise (CW) until the crimps tighten around each wire. Tug on each wire a bit to verify they are secure.



Power Connections

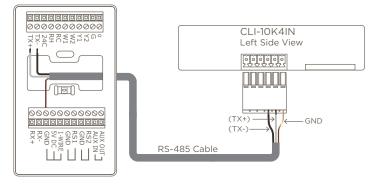
Use the diagrams below when making the power connections between the thermostat and the CLI-10K4IN climate module.



- Power can be daisy-chained between modules.
- The cable lengths vary depending on the size of the wire. See the specifications table on page 1 for more information.

RS-485 Connections

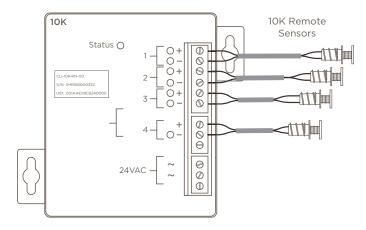
Use the diagrams below when making the RS-485 connections between the thermostat and CLI-10K4IN climate module.



- Max cable length is 1000 feet (304.8 meters).
- Savant recommends using standard RS-485 cable for wire runs.

Thermistor Connections

Use the diagram below when wiring the 10K temperature sensors.



- Supports a maximum of four sensors per CLI-10K4IN module.
- There is no polarity to the 10K temperature sensors.
- Max cable length = 500 feet (152.4 meters).
- Minimum size wire = 24 AWG.
- A twisted pair is recommended (e.g. Cat 5e/6/7).
- Any 10K type temperature sensor is supported. See the <u>Supported</u> Sensors section on page 1.
- Climate modules can be daisy-chained to increase the number of sensors.
- Two or more ports can be combined and the average of these sensors taken.

Additional Information

Refer to the following documents located on the **Savant Customer Community** for additional information.

- Multistat Smart Thermostat Deployment Guide (009-1636)
- Multistat Thermostat with Touchscreen (009-1593)