



Wiring

Match your transmitter with the corresponding diagrams (Figure 4 through Figure 11), set the switches and wire accordingly. (See Figure 3 below for switch and terminal block locations.) Ensure that all the installation and wiring is in compliance with all national and local codes.

**Note:** All Voltage Outputs are measured with respect to the POWER SUPPLY / CONTROLLER GROUND.

Wiring for the transmitter should be in a single shielded twisted pair cable or multiple pairs if needed. Use only copper conductors. Do not run transmitter wires and AC power wires together in the same conduit or wire bundle.

Caution!

Running transmitter wires and AC power wires, including earth ground, in the same conduit or wire bundle may cause malfunction due to electrical noise.

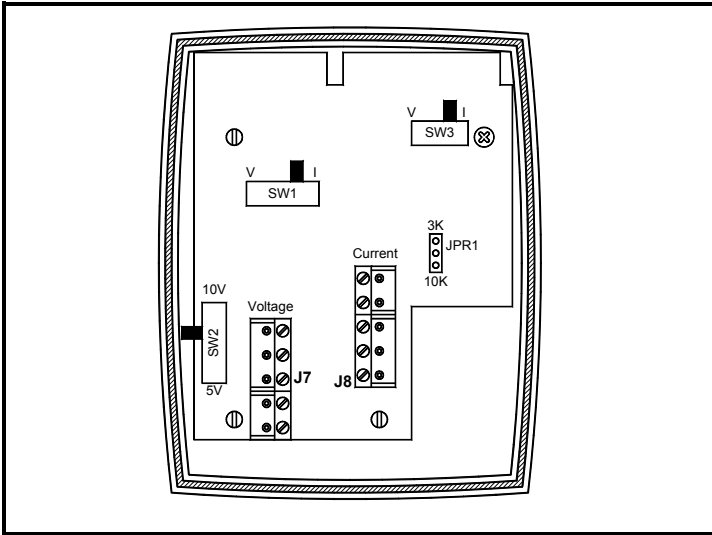


Figure 3: Connector/Switch Locations - Inside Cover



Figure 4: Switch Positions for Voltage Mode

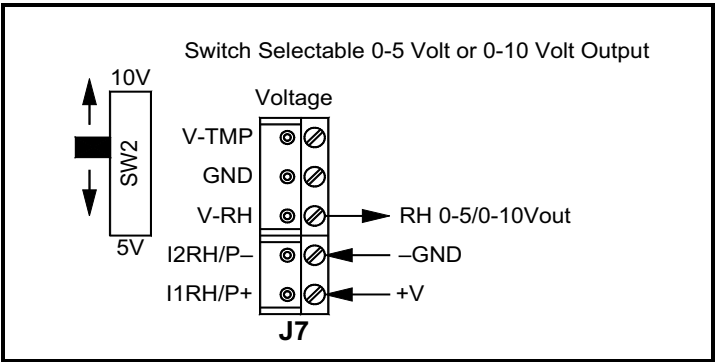


Figure 5: RH Only - Voltage

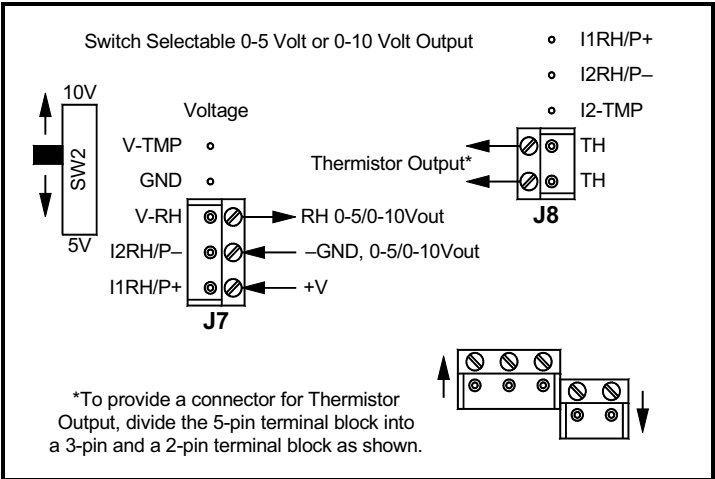


Figure 6: RH and Temp. (Direct Connection) - Voltage

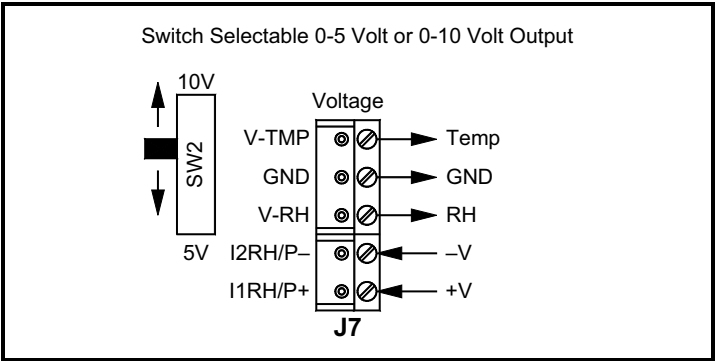


Figure 7: RH and Temp. (Signal Condition) - Voltage



Figure 8: Switch Positions for Current Mode

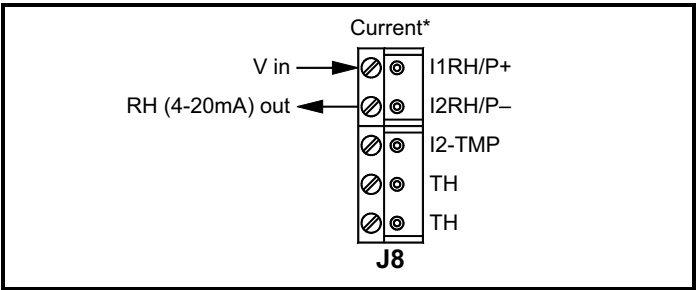


Figure 9: RH Only - Current

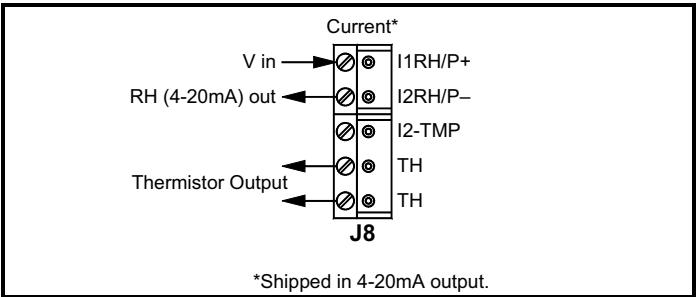


Figure 10: RH and Temp. (Direct Connection) - Current

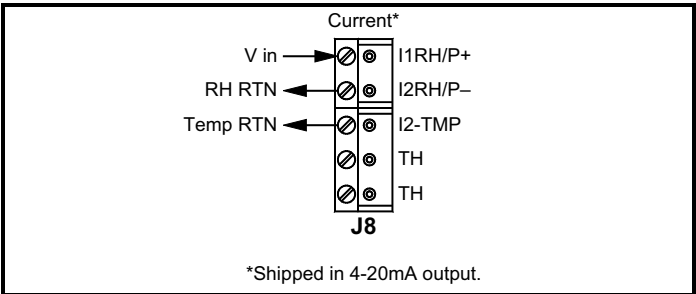


Figure 11: RH and Temp. (Signal Condition) - Current

CE COMPLIANCE

1. Ensure that the probe earth ground wire (for Duct and Outside Air units only), the shield wire and the PCB earth ground wire are connected to the mounting screw or the NEAREST (<1.5m) earth ground.
2. The other end of the shield wire MUST be connected to the power supply /controller earth ground ONLY.

CE

HumiTrac Ordering Information

Model		Accuracy			
		5%	3%	2%	2% with NIST Certificate
Space (Wall) Mount	RH Only	P40250121	P40250181	P40250109	P40250139
	RH & 3/10K $\Omega$ Thermistor	P40250122	P40250182	P40250110	P40250141
	RH & Band gap Temp sensor (0 to 50°C)	P40250123	P40250183	P40250111	P40250142
	RH & Band gap Temp sensor (-40 to 60°C)*	P40250125	P40250184	P40250112	P40250143
Duct Mount	RH Only	P40250129	P40250190	P40250117	P40250147
	RH & 3/10K $\Omega$ Thermistor	P40250130	P40250191	P40250118	P40250149
	RH & Band gap Temp sensor (0 to 50°C)	P40250131	P40250192	P40250119	P40250150
	RH & Band gap Temp sensor (-40 to 60°C)*	P40250133	P40250193	P40250120	P40250151
Outside Air	RH Only	P40250126	P40250185	P40250113	P40250144
	RH & 3/10K $\Omega$ Thermistor	P40250127	P40250186	P40250114	P40250145
	RH & Band gap Temp sensor (-40 to 60°C)*	P40250128	P40250189	P40250115	P40250146
Sensor Tip		P40254276		P40254275	3 PT CERT

\*Signal conditioned temperature output corresponding to 4-20mA, 0-5V or 0-10V (user selectable)