

INSTALLATION INSTRUCTIONS

HTRL Series

Room RH/T sensor with LCD

Setpoint and override options



ORDERING

HTRL-2	2% RH/T Transmitters, 0-5/10v outputs
HTRL-3	3% RH/T Transmitters, 0-5/10v outputs

Consult factory for thermistor, setpoint slider, and override options.

IMPORTANT WARNINGS

- Only qualified trade installers should install this product
- This product is not intended for life-safety applications
- Do not install in hazardous or classified locations
- The installer is responsible for all applicable codes
- De-energize power supply prior to installation or service

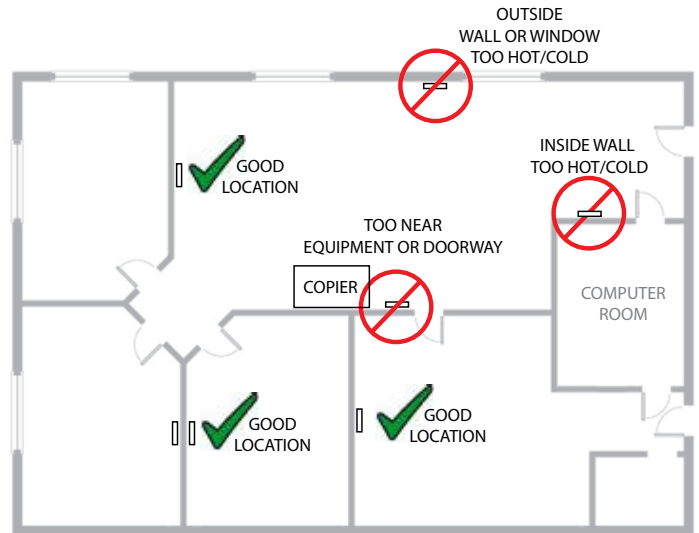
PRODUCT APPLICATION LIMITATION:

Senva products are not designed for life or safety applications. Senva products are not intended for use in critical applications such as nuclear facilities, human implantable device or life support. Senva is not liable, in whole or in part, for any claims or damages arising from such uses.

INSTALLATION

① IMPORTANT! Locate sensor in an area away from ventilation sources and heat generating equipment and appliances. Sensor should be mounted at light switch height in a vertical orientation. Use insulating material behind sensor to ensure reading accuracy.

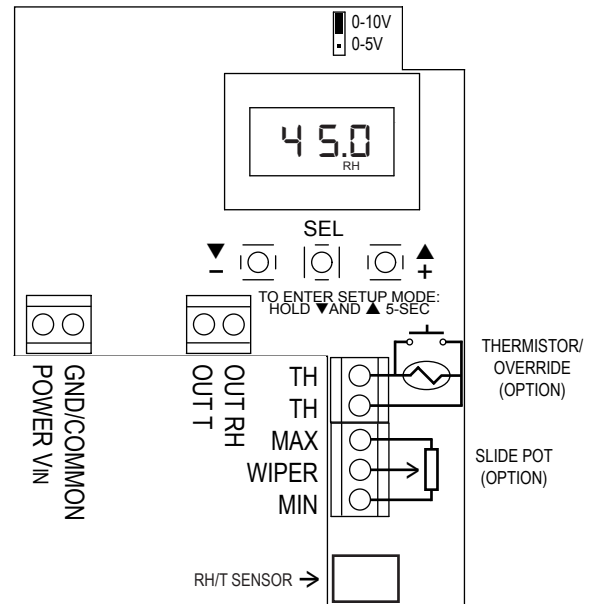
NOTE: Do not install sensor in multi-gang electrical boxes with line voltage or other electrical devices.



② Wire sensor according to the product labeling.

③ Install sensor to wall or j-box using screws provided.

④ Move jumper to select 5v or 10v.



⑤ Install cover to back plate by engaging hinge at top first, then gently rocking bottom end closed. Optionally secure with screw provided. Snap in desired bezel to conceal or reveal LCD.

SPECIFICATIONS

Power supply		12-30vdc/24vac ⁽¹⁾ , 100mA max.	
Outputs	Voltage Only	3-wire 0-5v/0-10v ⁽²⁾ (jumper)	
	Accuracy	2% models, +/-2% over 10 to 90% range 3% models, +/-3% over 20 to 80% range	
Relative Humidity	Resolution	0.05%RH	
	Hysteresis	+/-1%RH	
	Non-linearity	Factory linearized <1%RH	
	Temperature coefficient	Fully compensated by on-board sensor	
	Response time ⁽³⁾	30s	
	Output update rate	2s	
	Operating range	0 to 100%RH (non-condensing)	
	Long term drift	<0.5%RH per year	
	Operating conditions ⁽⁴⁾		-20 to 60°C @ RH >90%
			-20 to 80°C @ RH = 50%
Temperature (Transmitter)	Scaling	50 to 95°F (10-35°C)	
	Accuracy, (-20 to 70oC range)		2% models, <+/-1°C; 0.5°C typ@25°C
			3% models, <+/-2°C; 0.5°C typ@25°C
	Resolution	0.01°C	
	Repeatability	+/-0.1°C	
	Response time ⁽²⁾	30s	
	Output update rate	2s	
Operating range	-40 to 120°C (sensor only)		
Operating Environment	Temperature	32 to 140°F (0-60°C)	
	Humidity	0-95%RH, non-condensing	
Enclosure	Material	ABS Plastic	
	Dimensions	4.85"h x 3.25"w x 1.19"d	

(1) One side of transformer secondary is connected to signal common. Dedicated transformer is recommended.

(2) 15-30vdc/24vac power supply voltage required for 10 volt output.

(3) Time for reaching 63% of reading at 25oC and 1 m/s airflow.

(4) Long term exposures to conditions outside normal range or high humidity may temporarily offset the RH reading (+3%RH after 60 hours.)

TROUBLESHOOTING

Symptom	Solution
No output	Check wiring. Ensure power supply meets requirements.
Reading error	Verify unit is located away from hot/cold sources.
	Verify control panel software is configured for correctly.
	Verify accuracy of test instrument.
	Install insulation behind sensor to prevent air flow from inside wall.