

Temperature / Humidity Transmitter With 4-20mA/RS-485 /Ethernet Interface (Model HTX-3000)

(Product Code 16.1 To 16.6)



HTX-3000-W

Model Wise Description:

Sr. No	Model	Product Description
16.1	HTX-3000-W	T + RH Transmitter – with Integrated sensor Wall mounting
16.2	HTX-3000-F	T + RH Transmitter – Floating leads (Sensor with cable)
16.3	HTX-3000-W-S	T + RH Transmitter – with integrated sensor and RS 485 serial interface
16.4	HTX-3000-F-S	T + RH Transmitter – Floating leads with RS 485 serial interface
16.5	HTX-3000-W-E	T + RH Transmitter – ETHERNET TCPIP interface
16.6	HTX-3000-F-E	T + RH Transmitter – Floating leads with ETHERNET TCPIP interface

Description:

Libratherm offers micro-controller based (T + Rh) Transmitter model **HTX-3000** with digital display, 4-20mA output, RS 485 or Ethernet interface as per the requirement.

This model find its application in Green House, Cold Storage rooms, Server rooms, Sterilizers, Pharmaceutical and Food product storage or manufacturing plants and all such similar areas where the measurement is important and critical and required to be strictly monitored at the desired levels. For sensing (T + Rh) in vacuum system, specially designed suitable sensor assemblies are also available.



HTX-3000-F

Features:

- ❖ Microcontroller based design.
- ❖ Elegant appearance, easy to operate and compact in size.
- ❖ Highly accurate and sturdy in operation.
- ❖ Dual display for simultaneous indication of T and RH.
- ❖ Field proven Algorithm, tested successfully for various HVAC control applications.

Technical Specifications:

Sensor	Hygroclip-XD or HTS-222 (common sensor for both T and RH)
Temperature Range	-40.0 to 60.0°C / -40.0 to 140.0°F (User to specify the display range)
Temperature Accuracy	Better than +/- 0.3 °C
%RH Range	0.0 to 100.0 %RH
RH Accuracy	Better than +/-1 %RH @ 25.0 °C
Display for T and %RH	4 digit each – 0.3" red / green seven segment LED.
Power Requirement (*)	24VDC @ 150mA (+/-10%) .
Output 1 for Temperature	4-20mA proportional to -40.0 to 60.0 °C or 0.0 to 60.0 °C Or for any other range – please see the Ordering Information table given below (12 bit resolution)
Output 2 for %RH	4-20mA proportional to .0 to 100.0 %RH (12 bit resolution)
Load Resistance	RLmax. = 400 Ohms @ 24VDC.
Serial Output (optional)	Isolated 2 wire RS485 MODBUS RTU Slave protocol
Ethernet Port (optional)	Ethernet port on RJ-45 jack with TCP/IP protocol.
Key board	Membrane key board is provided for programming the MODBUS address and for calibration.
Enclosure (Size)	ABS plastic (120 x 80 x 55) mm.
Sensor Stem Size	15 x 140 mm + 2meter long cable for HTX-3000-F 15 x 140 mm with screw on type plug and socket for HTX-3000-W
24VDC Adapter (Optional)	24VDC adapter working on 90-250VAC can be supplied along with HTX-3000 as shown above.
Mounting	Wall mounting clamps are provided for all models for front and side ways cable entry. Flush wall mounting with back side cable entry Suitable sizes glands are provided for supply and output connections.

Ordering Information:

MODEL	A - Temp. Range	B - %RH Range	C - RS 485	D- Ethernet	E-24VDC Adapter
HTX-3000-W	A1- (0.0 to 60.0°C)	B1-	C1-(Yes)	D1- (Yes)	E1-(Yes)
HTX-3000-F	A2- (0.0 to 100.0°C)	(0.0 to 100.0%)	00-(None)	00-(None)	00-(None)
HTX-3000-W-S	A3- (-20.0 to 80.0°C)				
HTX-3000-F-S	A4- (-40.0 to 60.0 °C)				
HTX-3000-W-E					
HTX-3000-F-E					

Examples:

MODEL	A - Temp. Range	B - %RH Range	C - RS 485	D- Ethernet	E-24VDC Adapter
HTX-3000-W	A1	B1	00	00	E1
HTX-3000-F-S	A3	B1	C1	00	E1
HTX-3000-W-E	A4	B1	00	D1	00

Example	Ordering Code	Description
1	HTX-3000-W-A1-B1-00-00-E1	This is wall mounting type T + RH transmitter with 4-20mA proportional to 0 to 60 °C and 0 to 100% and with 24VDC adapter.
2	HTX-3000-F-S-A3-B1-C1-00-E1	This is T + RH transmitter with 2 meter sensor cable, with 4-20mA proportional to -10 to 50 °C and 0 to 100%RH and RS 485 interface and with 24VDC adapter.
3	HTX-3000-W-E-A4-B1-00-D1-00	This is wall mounting T + RH transmitter, with 4-20mA proportional to -40 to 60 °C and 0 to 100%RH and with ETHERNET interface.



HTX-3000 IN FLP ENCLOSURE HTX-3000 WALL MOUNT WITH REAR CABLE ENTRY

User Must specify the required cable entry for supply and Output while placing the order.