NEW

iServer MicroServer™
Temperature + Humidity

MADE IN USA   c UL us LISTED   C E   FCC-B

iTHX-W

✔ **Temperature**
✔ **Relative Humidity**
✔ **Dew Point**
✔ **Web Server**
✔ **Accurate Readings**

✔ **Password Protection**
✔ **Email Alarms**
✔ **Data Logging**
✔ **Virtual Chart Recorder**

View Temperature + Humidity with a Web Browser

The OMEGA® iTHX transmitter lets you monitor and record Temperature, Relative Humidity and Dew Point over an Ethernet network or the Internet with no special software except a Web browser.
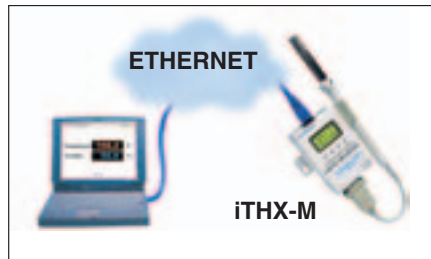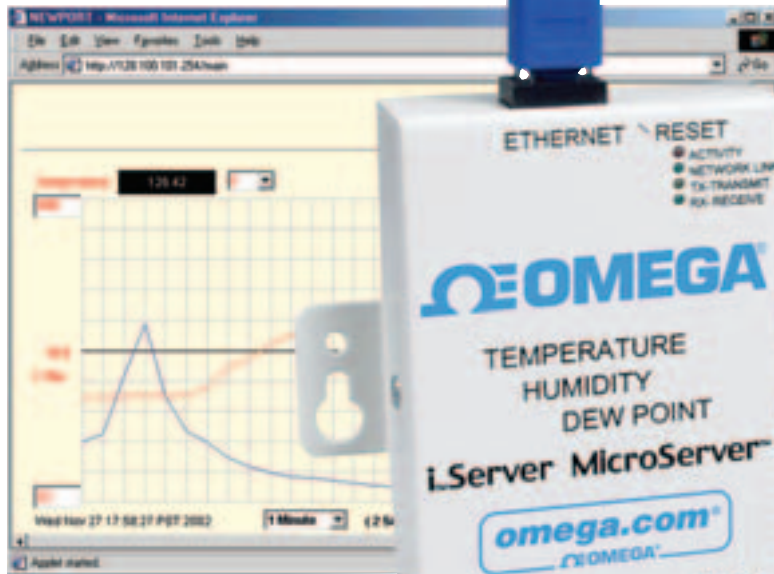
The OMEGA® iTHX serves Active Web Pages to display real time readings, display charts of temperature and humidity, or log data in standard data formats for use in a spreadsheet or data acquisition program such as Excel or Visual Basic.

Adjustable Charts

The JAVA™ Applet chart scales are fully adjustable on the fly. For example, the chart can display one hour, one day, one week, one month or one year. Users can select channel 1, channel 2 or the difference of the two channels. Temperature and humidity can be charted across the full span (0 to 70°C [32 to 158°F], and 0 to 100% RH) or within any narrow range such as 20 to 30°C (68 to 86°F).

Award-Winning Technology

The OMEGA® iTHX is simple to install and use, and features OMEGA's award-winning iServer technology that requires no special software except a Web browser. The iTHX connects to an Ethernet Network with a standard RJ45 connector and sends data in standard TCP/IP packets. It is easily configured with a simple menu using a Web browser and can be password protected.

iTHX-2 with DIN Rail Case and 5" Industrial Probe

Java™ is a registered trademark of Sun MicroSystems, Inc.

ETHERNET

iTHX-M

From within an Ethernet LAN or over the Internet, the user simply types the IP address or an easy-to-remember name such as "Cleanroom 5" or "Midwest Server Room" in any Web Browser, and the iTHX serves a Web Page with the current readings.

Alarms and Email

If temperature or humidity exceed a set limit, the iTHX can trigger an alarm that can be sent by email to an Internet enabled pager or cell phone.

Customer Service

The OMEGA® iTHX comes complete with full documentation, and firmware.

OMEGA® iServer products are designed and manufactured in the U.S.A. OMEGA provides generous technical support.

Temperature + Humidity ®iTHX

Sensor Specifications

RELATIVE HUMIDITY (RH)
Accuracy/Range: ±2% for 10 to 90%;
±3% for 0 to 10% and 90 to 100%
Non-linearity: ±3%
Response Time: 4 sec.
(63% slowly moving air)
Repeatability: ±0.1%
Resolution: 0.03%, 12 bit

TEMPERATURE (T)
Range: 0 to 70°C (32 to 158°F)
Accuracy: ±0.5°C @ 25°C
Response Time: 5 sec.
(63% slowly moving air)
Repeatability: ±0.1°C
Resolution: 0.01°C, 14 bit
Probe Physical Dimensions:
   Wand Probe 198.1 L x 19.1 mm D
   (7.8 x 0.75").
   Single Probe (standard) for Channel 1,
   Dual Probes for 2 Channels

iServer Specifications

INTERFACES
Ethernet: 10Base-T (RJ45)
Sensor: Digital 4-wire (DB-9)
Supported Protocols:
TCP/IP, UDP/IDP, ARP, ICMP, DHCP,
DNS, HTTP, and Telnet
Indicators (LED's):
Power, Network Activity, Network Link,
Serial Transmit and Receive
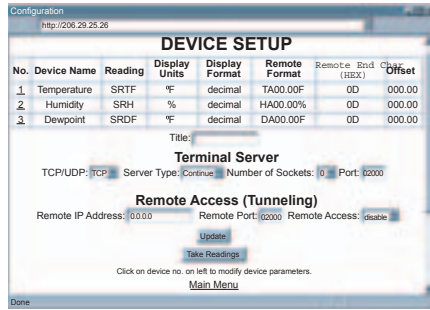Display: 16 Digits 6 mm (0.23") for **iTHX-M**
Processor: Enhanced 8051, 22 MHz
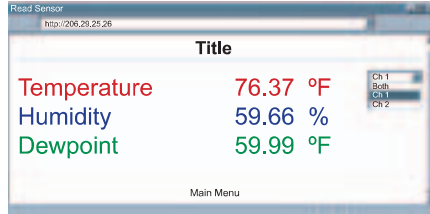**Memory:** 512 Kbytes Flash,
16 Kbytes SRAM Memory Data Flash
Card, 2M bit for **iTHX-M**
Management: Device configuration and
monitoring through embedded WEB server

DEVICE SETUP

No.	Device Name	Reading	Display Units	Display Format	Remote Format	Remote End Char (HEX)	Offset
1	Temperature	SRTF	°F	decimal	TA00.00F	0D	000.00
2	Humidity	SRH	%	decimal	HA00.00%	0D	000.00
3	Dewpoint	SRDF	°F	decimal	DA00.00F	0D	000.00

Title:

Terminal Server
TCP/UDP: TCP Server Type: Continue Number of Sockets: 0 Port: 02000

Remote Access (Tunneling)
Remote IP Address: 0.0.0.0   Remote Port: 02000 Remote Access: disable

Update
Take Readings

Click on device no. on left to modify device parameters.
Main Menu

Embedded WEB Server:
Serves WEB pages containing real-time
data and live updated charts within
definable time intervals.

Read Sensor

Title

Temperature	76.37	°F	Ch 1
Humidity	59.66	%	Both / Ch 1
Dewpoint	59.99	°F	Ch 2

Main Menu

SOFTWARE
Firmware upgradeable. Including an Excel
program for automatic data logging within
definable time intervals, compatible with all
Windows operating systems.
Agency Approvals: FCC-B, C/UL, CE
POWER
Input: 9 to 12 Vdc

**iTHX-M with
display,
flash memory
card, one chart
measurement and
back-up battery**

Consumption:
2 W max. (ac power adapter included)
Battery:
9 V, Alkaline for **iTHX-M,** included
ENVIRONMENTAL
Operating Temp: 0 to 70°C (32 to 158°F)
Storage Temp: -40 to 125°C (-40 to 257°F)
PACKAGING
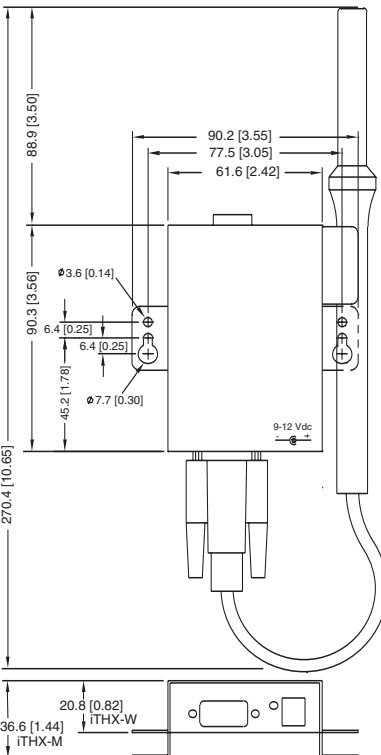**Material:** Metal case with flange mount
Dimensions: 21 H x 62 W x 90 D mm
(0.83 x 2.93 x 3.56") for **iTHX-W**
36.6 H x 62 W x 90 D mm
(1.44 x 2.93 x 3.56") for **iTHX-M**
Weight: 0.18 kg (0.4 lb)

Display and Chart Two Channels
The iTHX transmitters come complete with a humidity + temperature
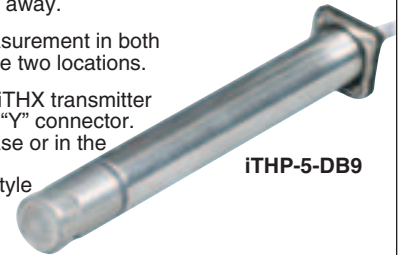probe for measurement of a single location.

With the addition of a second probe, the transmitter
can measure and display humidity + temperature
and dewpoint in a second location up to twenty feet away.

The transmitter can display and chart absolute measurement in both
locations, or a differential measurement between the two locations.

The second probe requires no change to the basic iTHX transmitter
hardware, firmware or software except for a simple "Y" connector.
A second probe can be added at the time of purchase or in the
future. OMEGA offers a choice of industrial probes
in 51 and 137 mm (2 and 5") lengths, and a wand style
for ambient indoor applications.

iTHP-2-DB9

iTHP-5-DB9

ALL MODELS AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Description	
iTHX-W	iServer MicroServer™ for Temp + Humidity, with 8" Wand Probe	
iTHX-M	iServer MicroServer™ for Temp + Humidity, with 8" Wand Probe, LED Display, 2 M Flash Memory Card, and Backup Battery	
Accessories		
iTHP-W	Wand Probe 8" (203 mm), cable 0.9 m (3') with DB9 Connector	
iTHP-W-6	Replacement Wand Probe 203 mm (8"), cable 152 mm (6") with DB9 Connector	
iTHP-2-DB9	Industrial Probe 51 mm (2"), cable 1 m (3') with DB9 Connector	
iTHP-5-DB9	Industrial Probe 127 mm (5"), cable 6 m (20') with DB9 Connector	
DB9-Y	DB9 "Y" Connector Adapter for 2 probes with DB9 Connector	
DB9-CA-3	Extension Cable, 1 m (3') with DB9 Connector	
iTH-MC2	Memory Data Flash Card, 2 M bit	
iTH-MC8	Memory Data Flash Card, 8 M bit	

* Volume discounts are available.
Ordering Example: iTHX-W *iServer MicroServer™ for temp + humidity, with 8" probe,*

Dimensions mm (inches)

omega.com®
Your One-Stop Source for Process Measurement and Control!

More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters

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