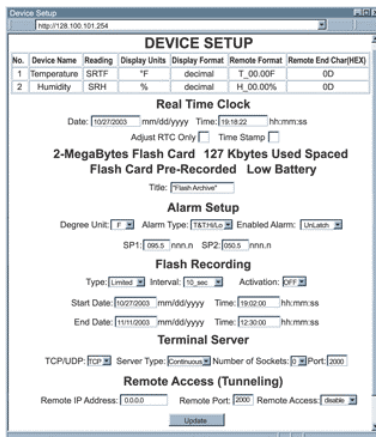


i.Server MicroServer™

Temperature
+
Humidity
+
Alarm Relays



View Temperature + Humidity with a Web Browser

The 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 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.



Adjustable Charts

The JAVATM 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. Temperature and humidity can be charted across the full span (0 to 70°C [32 to 158°F], and 10 to 90% RH) or within any narrow range such as 20 to 30°C (68 to 86°F).

The virtual chart viewed on the web page is a JAVATM Applet that records a chart over the LAN or Internet in real time. With the iTHX, there is no need to invest time and money learning a proprietary software program to log or chart the data.

Award-Winning Technology

The iTHX is simple to install and use, and features 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. From within an Ethernet LAN or over the Internet, the user simply types its 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

Typical Applications

The iTHX is great for monitoring temperature + humidity in applications such as: clean rooms, computer rooms, HVAC systems, pharmaceutical and food processing and storage, hospitals, laboratories, semiconductor fabs, electronic assembly, warehousing, museums, manufacturing, greenhouses, farm animal shelters, and many more. The iTHX comes complete with one temperature/humidity probe, however users may purchase an additional probe for two-channel monitoring and differential measurement.

NEW iTHX-M with Flash Memory and LCD Display

The iTHX with LCD display, adds several valuable features in addition to the backlit local display of temperature and humidity. The "MEMORY" model comes complete with a removable 2-MEGABYTE Flash Memory card that can store one full year of readings taken at one-minute intervals (or two months of readings taken at ten second intervals).

Up to four years of temperature + humidity readings can be stored on the 8 Mbyte card. With data being recorded in the built-in nonvolatile flash memory, a failure on the Ethernet network will not interrupt the data record.

Specifications

> Sensor

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°C to 70°C (32°F to 158°F)

Accuracy*: ±0.5°C

*Extended temperature accuracy/range when 3 ft (or longer) cable is used.

±0.5°C for 0 to 80°C (±1°F for 32 to 176°F)

±1°C for -40 to 0 and 80 to 124°C

(±2°F for -40 to 32 and 176 to 254°F)

Note: extended temperature range is for probe only, the iServer's operating temp. is 0-70 °C.

Response Time: 5 sec. (63% slowly moving air)

Repeatability: ±0.1°C

Resolution: 0.01°C, 14 bit

> Physical Dimensions

Wand Probe iTHX-W, iTHX-M: 19.1mm Diameter x 198.1mm Long (0.75" x 7.8")

Industrial Probe iTHX-2: 16mm Diameter x 137mm Long (0.63" x 5")

> iServer

Interfaces

Ethernet: 10Base-T (RJ45)

Sensor: Digital 4-wire (DB-9) for iTHX-W, iTHX-M; (8 pos. screw terminal) for iTHX-2

Supported Protocols

TCP/IP, UDP/IP, ARP, ICMP, DHCP, DNS, HTTP, and Telnet

Indicators (LED's)

Network Activity, Network Link, Transmit and Receive/Diagnostics

LCD Display 16 Digits 6mm (0.23 in.) for iTHX-M

Memory

512 Kbytes Flash, 16 Kbytes SRAM

Memory Data Flash Card

2 M bytes: 2 months of data storage at 10 seconds logging intervals or 1 year at 1 minute intervals for iTHX-M

Relay Outputs

Two Relays 1.5A @ 30 Vdc for iTHX-M

Management

Device configuration and monitoring through embedded WEB server (Fig.1)

Embedded WEB Server

Serves WEB pages containing real-time data (Fig. 2) and live updated charts within definable time intervals (Fig. 3).

Power Input: 9-12 Vdc iTHX-W, iTHX-M; 10-32 Vdc iTHX-2

Safety Qualified ac power adapter: Nominal Output: 9 Vdc @ 0.5A included for iTHX-W, iTHX-M Switching Power Supply (iDRN-PS-1000) sold separately for iTHX-2 Consumption: 2.5 W max.)

Battery: 9Vdc, Alkaline for iTHX-M

Environmental

Operating Temperature: 0 to 70°C (32 to 158°F) **Storage Temperature:** -40 to 125°C (-40 to 257°F)

Packaging

Material: Metal case with flange mount for iTHX-W, iTHX-M Polycarbonate case with DIN Rail mount for iTHX-2

Dimensions: 21H x 62W x 90D mm (0.83 x 2.42 x 3.56 in) iTHX-W

37H x 62W x 90D mm (1.44 x 2.42 x 3.56 in) iTHX-M

90.2H x 25.1W x 115.0Dmm (3.54 x 0.99 x 4.53 in) iTHX-2

Weight: 0.18 kg (0.4 lbs.) iTHX-W

0.298 kg (0.8 lbs.) iTHX-M

0.113 kg (0.25 lbs.) iTHX-2

Note: * The iTHX-W and iTHX-2 has 2 channels, the iTHX-M has one channel. Each channel consists of a single temperature and humidity probe. Two channel models can accept two probes, that is, two temperature and two humidity readings. The second probe is provided optionally. In order to connect the second probe to the iTHX-W, the DB9-Y adaptor is required.



For detail please visit <http://www.eastco-hk.com>

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EASTCO LIMITED 儀 高 儀 器 有 限 公 司			
	HONG KONG HEAD OFFICE: NO.11 20/F., WING FUNG IND. BLDG., 40 - 50 SHA TSUI ROAD, TSUEN WAN N.T., HONG KONG TEL: (852) 2456 1823 FAX: (852) 8148 6856, (852) 2469 1767 E-MAIL: info@eastco-hk.com	SHENZHEN OFFICE: 8/F, BLDG. 616, 1st BAGUA ROAD, FUTIAN DISTRICT, SHENZHEN, CHINA POSTAL CODE: 518029 TEL: (86-755) 8226 7541 FAX: (86-755) 8241 3857 E-MAIL: shenzhen@eastco-hk.com	SHANGHAI OFFICE: ROOM 1810, 701 HUTAI ROAD, SHANGHAI, CHINA POSTAL CODE: 200072 TEL: (86-21) 5653 6311 FAX: (86-21) 5653 6309 E-MAIL: shanghai@eastco-hk.com