



Monitor Temperature Over the Internet

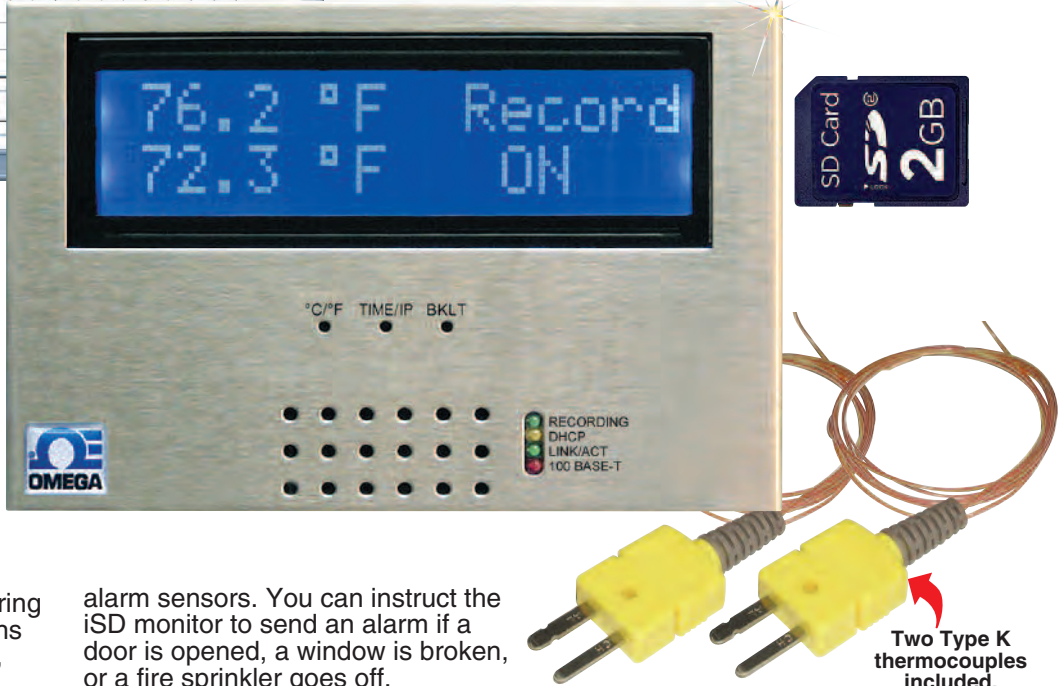


- ✓ Virtual Chart Recorder
- ✓ Web Server
- ✓ Dual Thermocouple (10 Types)
- ✓ Alarms by Email or Text Message
- ✓ Record Years of Data on Popular SD Cards
- ✓ No Special Software Required

iSD-TC
\$495



iSD-TC, \$495, shown smaller than actual size.



The OMEGA® iSD-TC provides Web-based temperature monitoring in critical equipment and locations such as computer server rooms, clean rooms, laboratories, museums, warehouses, or any remote facility.

View and record temperature on two independent thermocouple channels, over an Ethernet network or the Internet with no special software—just a Web browser.

Email Alarms

The device can trigger an alarm if temperature goes above or below a set point that you determine. Your alarm can be sent by email to a single user or to a group distribution list, including text messages to cell phones and PDA's.

Physical Threats

The OMEGA iSD-TC includes screw terminals for two contact closures that work with common

alarm sensors. You can instruct the iSD monitor to send an alarm if a door is opened, a window is broken, or a fire sprinkler goes off.

Power Failure

The iSD monitor can trigger an alarm if the AC power fails. The iSD-TC will continue to collect data for two days powered by a standard 9 Volt alkaline battery (included). A failure on the Ethernet network will not interrupt data recording.

Local Alarms

The OMEGA iSD monitor includes two 1.5 Amp output relays that are controlled by the alarm conditions you select. The relays can trigger flashing lights and a siren for example to alert personnel near the scene.

With the easy Web-based setup page, the two relays can be programmed for two temperature inputs, and high or low set points, as well as alarm conditions triggered by contact closures.

The relays can also be programmed to turn off when conditions return to normal, or programmed to remain latched and require a manual reset.

View Charts and Graphs on the Web

The OMEGA iSD serves Active Web Pages to display real time readings, display charts of temperature, or log data in standard data formats for use in a spreadsheet or data acquisition program such as Excel or Visual Basic.

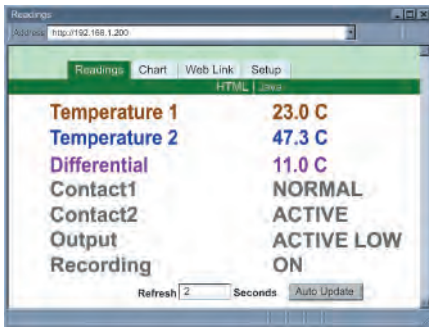
The virtual chart viewed on the web page is a JAVA™ Applet that records a chart over the LAN or Internet in real time. With the OMEGA iSD, there is no need to invest time and money learning a proprietary software program to log or chart the data.

* Refer to footnote on page R-10 for ordering information.





Chart scales are fully adjustable on the fly. For example, the chart can display one minute, one hour, one day, one week, one month or one year. Temperature can be charted across the full span or within any narrow range.



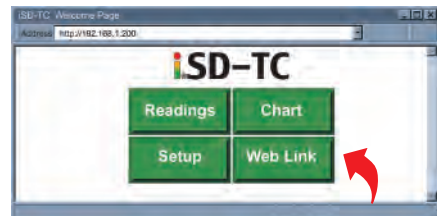
The iSD can display and chart absolute measurements in two locations and a differential measurement between the two locations.

The iSD can take thermocouple types J, K, T, E, R, S, B, C, N, and L measuring temperatures up to 1820°C (3308°F). The iSD includes a pair of type K thermocouples.



Link to Web CAM or IP Camera

The Web page includes a link to a "Web Cam" or "IP camera" (not included). If you get a message about an alarm condition, you can quickly click on the link to view the actual scene over the Internet.



SD Flash Memory CARD

The iSD comes complete with a removable 2 GB SD Flash Memory card that can store up to seven years of readings taken at ten second intervals.

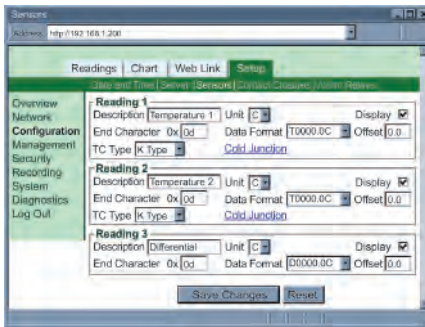


Records on SD Flash Cards

The data is recorded on widely available SD (Secure Digital) flash cards. The format is a simple ".txt" text file that is easily imported to spread sheets and other programs. It can be read directly on a PC or MAC with a USB card reader.

You can also download the data remotely over an Ethernet network or the Internet.

Installation and operation of the OMEGA iSD monitor requires no special training, tools, or software. The device connects to any Ethernet network with standard cable and plugs and is powered by any AC outlet supplying 110 to 240 Vac.

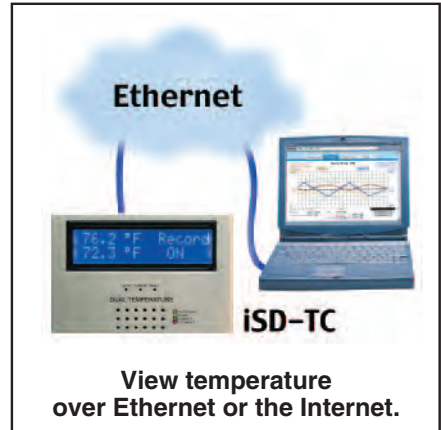


Sensor Setup

Award-Winning Technology

The OMEGA iSD is simple to install and use, and features OMEGA's award-winning iServer technology that requires no special software except a Web Browser. The iSD 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 iSD-TC serves a Web Page with the current readings.



Typical Applications

The OMEGA iSD is great for monitoring temperature 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, farm animal shelters, greenhouses, and many more.

OMEGA iServer products are designed and manufactured in the USA.

Time	Temp 1	Temp 2	Differential	Error
3:30:00 PM 11/15/02 AM	63.58	67.28	2.70	F
3:30:00 PM 11:15:02 AM	63.58	67.28	2.70	F
3:30:00 PM 11:30:02 AM	63.58	67.28	2.70	F
3:30:00 PM 11:45:02 AM	63.58	67.28	2.70	F
3:30:00 PM 12:00:02 AM	63.58	67.28	2.70	F
3:30:00 PM 12:15:02 AM	63.58	67.28	2.70	F
3:30:00 PM 12:30:02 AM	63.58	67.28	2.70	F
3:30:00 PM 12:45:02 AM	63.58	67.28	2.70	F
3:30:00 PM 1:00:02 AM	63.58	67.28	2.70	F
3:30:00 PM 1:15:02 AM	63.58	67.28	2.70	F
3:30:00 PM 1:30:02 AM	63.58	67.28	2.70	F
3:30:00 PM 1:45:02 AM	63.58	67.28	2.70	F
3:30:00 PM 1:59:59 AM	63.58	67.28	2.70	F

Data logging spreadsheet



Thermocouple Chart

Input Type	Range	Accuracy
J Iron-Constantan	-210 to 760°C (-346 to 1400°F)	0.4°C (0.7°F)
K CHROMEPA®-ALOMEGA®	-260 to -160°C (-436 to -256°F)	1.0°C (1.8°F)
	-160 to 1372°C (-256 to 2502°F)	0.4°C (0.7°F)
T Copper-Constantan	-270 to -190°C (-454 to -310°F)	1.0°C (1.8°F)
	-190 to 400°C (-310 to 752°F)	0.4°C (0.7°F)
E CHROMEPA®-Constantan	-270 to -220°C (-454 to -364°F)	1.0°C (1.8°F)
	-220 to 1000°C (-364 to 1832°F)	0.4°C (0.7°F)
R Pt/13%Rh-Pt	-50 to 40°C (-58 to 104°F)	1.0°C (1.8°F)
	40 to 1768°C (104 to 3214°F)	0.5°C (0.9°F)
S Pt/10%Rh-Pt	-50 to 100°C (-58 to 212°F)	1.0°C (1.8°F)
	100 to 1768°C (212 to 3214°F)	0.5°C (0.9°F)
B Pt/30%Rh - Pt/6%Rh	600 to 1820°C (1112 to 3308°F)	1.0°C (1.8°F)
C W/5%Re - W/26%Re	0 to 2320°C (32 to 4208°F)	0.4°C (0.7°F)
N OMEGALLOY® Nicrosil-Nisil	-250 to -100°C (-418 to -148°F)	1.0°C (1.8°F)
	-100 to 1300°C (-148 to 2372°F)	0.4°C (0.7°F)
L J DIN	-200 to 900°C (-328 to 1652°F)	0.4°C (0.7°F)

Specifications

Sensor Thermocouple Input

Temperature Range:

Refer to thermocouple chart at right

Temperature Accuracy:

Refer to thermocouple chart at right

Resolution: 1°/0.1°

Temperature Stability: 0.08°C/°C

Thermocouple Cold End Tracking:

0.05°C/°C

Thermocouple Lead Resistance:

100 Ω max

Thermocouple Type (ITS 90):

J, K, T, E, R, S, B, C, N, L

Interfaces

Ethernet (RJ45):

Fixed or auto-negotiating 10/100BASE-T,

Auto MDI/MDIX

Protocols:

TCP, UDP, SNMP, SMTP, NTP, ARP,

ICMP, DHCP, DNS, HTTP, and Telnet

LCD Display:

32 digits 4.8 x 9.7 mm

(0.19 x 0.38")

SD Flash Memory Card:

2GB card:

8 months of data storage at 1 second

recording intervals or 7 years at 10

second intervals

Relay Outputs:

Two relays 1.5 A @ 30 Vdc

Alarm I/Os:

Two contact inputs, TTL

0.5 mA with 10K pull-up; one open

collector output 150 mA @ 30 Vdc

Sample Rate:

16 samples/sec

Embedded WEB Server:

Serves WEB pages containing real-time data

and live updated charts within definable

time intervals

Software:

OPC Server; macro for

datalogging in Excel program;

compatible with Windows operating

systems

Power

Input: 9 to 12 Vdc

Safety Qualified AC Power Adaptor:

Input: 100 to 240 Vac, 50/60 Hz

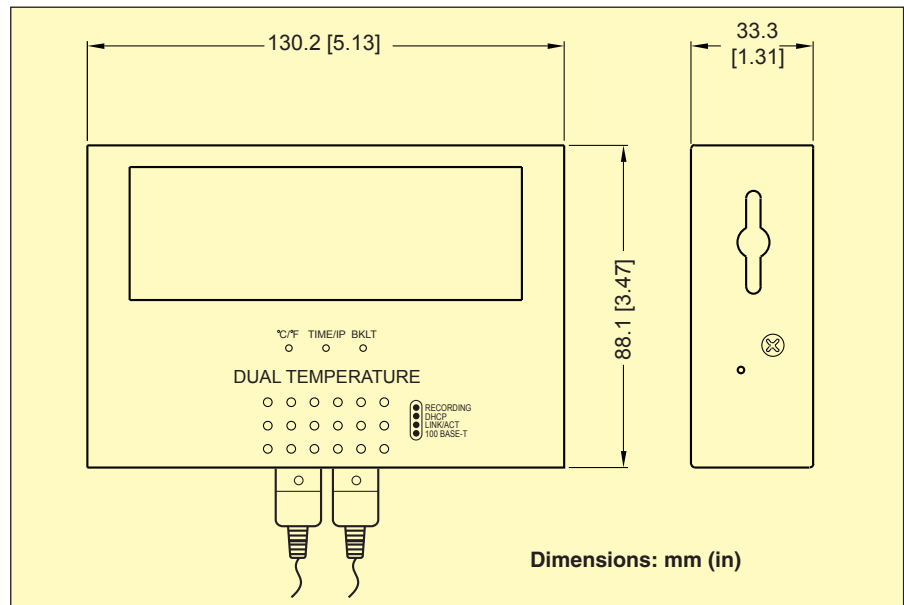
Nominal Output: 9 Vdc @ 0.5 A,

(included)

Back-up Battery:

9 Vdc, alkaline

(included)



Dimensions: mm (in)

Environmental

Operating Temperature:

iServer Unit: 0 to 60°C (32 to 140°F)

Battery: -18 to 55°C (-0.4 to 131°F)

ac Adaptor: 0 to 40°C (32 to 104°F)

Storage Temperature:

-40 to 85°C (-40 to 185°F)

Weight: 462 g (1.02 lbs), with battery

Material: SS 304 case with

wall mount bracket

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
iSD-TC	\$495	Monitor for dual thermocouple input
CAL-3*	100	NIST traceable calibration certificate, three temperature points for each input (for new units)

Comes complete with operator's manual, LCD display, 2 GB SD flash memory card, 2 relay alarms, battery back-up, universal (100 to 240 Vac) power adaptor and 2 Type K thermocouples.

* For CAL-3 specify calibration: **J, K, T, E, B, R, S, C, N, or L**

Ordering Example: **iSD-TC**, dual thermocouple monitor and **CAL-3J**, Type J, NIST traceable calibration, \$495 + 100 = **\$595**.



UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk
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