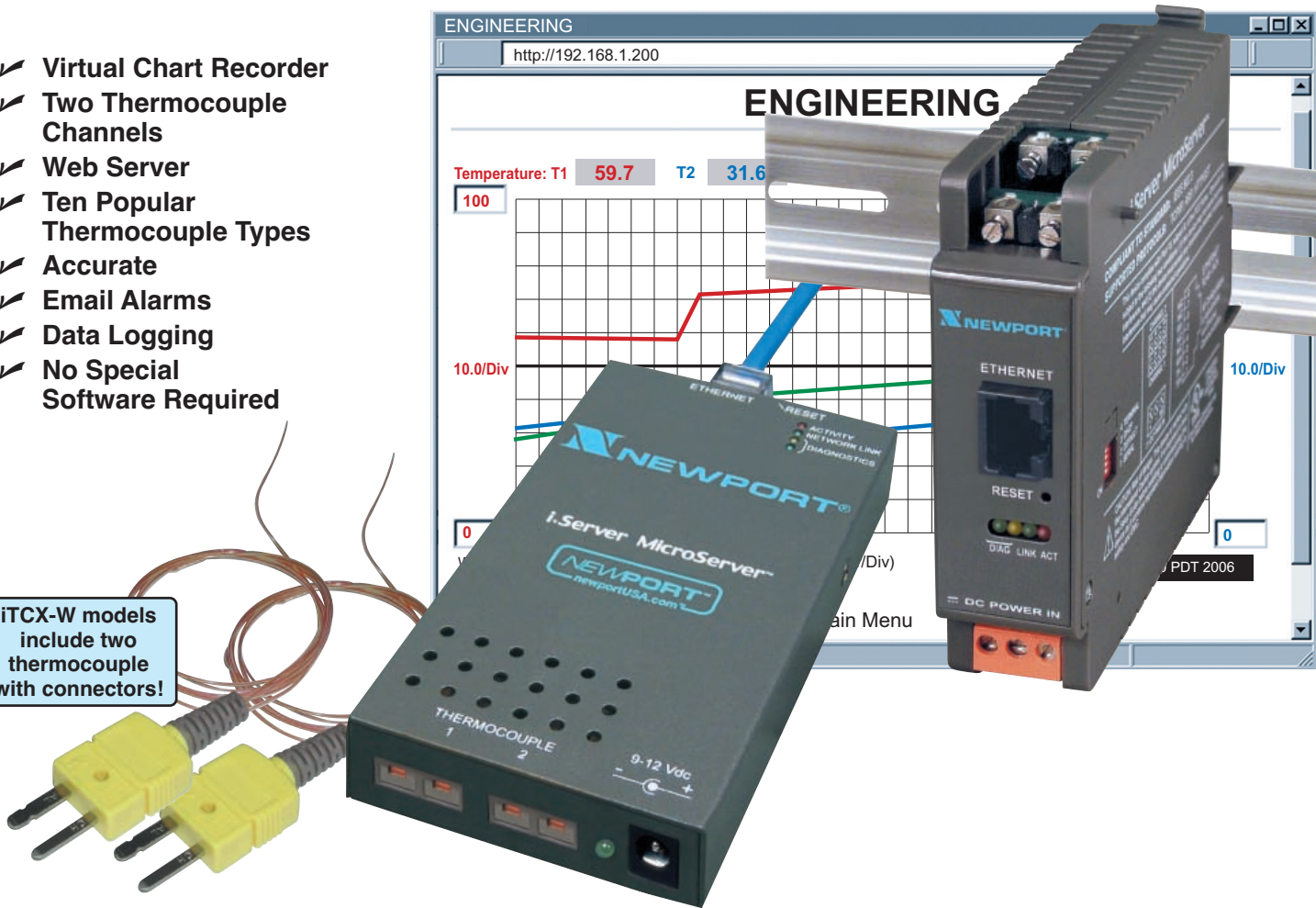




- ✓ Virtual Chart Recorder
- ✓ Two Thermocouple Channels
- ✓ Web Server
- ✓ Ten Popular Thermocouple Types
- ✓ Accurate
- ✓ Email Alarms
- ✓ Data Logging
- ✓ No Special Software Required

iTCX-W models include two thermocouple with connectors!



View Temperature from one or two Thermocouples with a Web Browser

The NEWPORT® iTCX transmitter let's you monitor Temperature from two independent Thermocouple channels over an Ethernet network or the Internet with no special software except a Web Browser.

The NEWPORT iTCX serves Active Web Pages to display real time readings, temperature charts, 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 plots a chart over the LAN or Internet in real time. With the NEWPORT iTCX, there is no need to invest time and money learning a proprietary software program to log or chart the data.

The NEWPORT iTCX is available in an industrial DIN rail package (iTCX-D) that is powered by 10-32 Vdc, and in a benchtop or wall mount package (iTCX-W) with an included universal (100-240 Vac) power adapter.

Adjustable Charts

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 such as 20-30°C.

You can chart temperature from one thermocouple, two thermocouples, and/or the differential between the two.

The iTCX transmitters can take Thermocouple Types J, K, T, E, R, S, B, C, N, and L measuring temperatures up to 1,820°C (3,308°F). The iTCX can display and chart absolute measurements in two locations and a differential measurement between the two locations.

Award-winning Technology

The NEWPORT iTCX is simple to install and use, and features NEWPORT's award-winning iServer technology that requires no special software except a Web Browser.

The iTCX 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 in any Web Browser, and the iTCX serves a Web Page with the current readings.

Email Alarms

The NEWPORT iTCX can send an email or text message reporting the status or an alarm condition over the Internet to any individual or distribution list.

SPECIFICATIONS

THERMOCOUPLE INPUT

Temperature Range:

refer to Thermocouple Chart

Temperature Accuracy:

refer to Thermocouple Chart

Resolution: 1°/0.1°

Temperature Stability: 0.08°C/°C

Thermocouple Cold End Tracking:

0.05°C/°C

Thermocouple Lead Resistance:

100 ohm max.

Thermocouple Type (ITS 90):

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

iSERVER SPECIFICATIONS

INTERFACES

Ethernet: 10Base-T (RJ45)

SUPPORTED PROTOCOLS

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

MEMORY

512 Kbytes Flash, 16 Kbytes SRAM

INDICATORS (LED's)

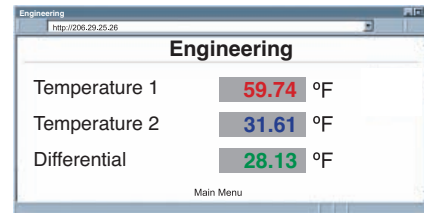
Network Activity, Network Link, Transmit and Receive/Diagnostics

MANAGEMENT

Device configuration and monitoring through embedded WEB server.

SOFTWARE

Firmware upgradeable. Including an Excel program for automatic data logging within definable time intervals, compatible with all Windows operating systems.



POWER

Input: 9 - 12 Vdc iTCX-W

10 - 32 Vdc iTCX-D

Safety Qualified ac power adapter:

Nominal Output: 9 Vdc @ 0.5A included for iTCX-W.

Input: 100 - 240 Vac, 50/60Hz

Switching Power Supply sold separately for iTCX-D

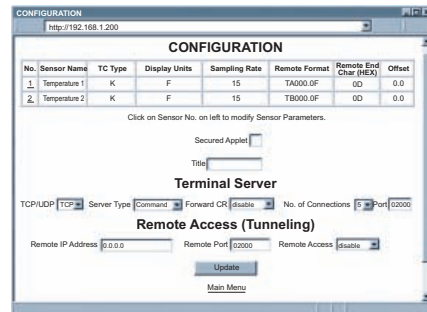
Consumption: 2.5 W max.

PACKAGING

Material: Metal case with flange mount for iTCX-W

Polycarbonate case with DIN Rail mount for iTCX-D

MECHANICAL SPECIFICATIONS



EMBEDDED WEB SERVER

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

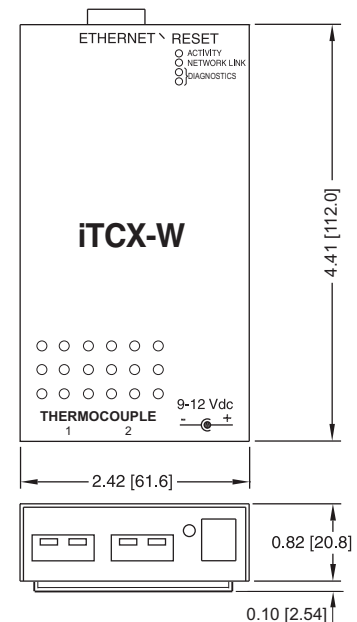
ENVIRONMENTAL

Operating Temperature:

0 to 70°C (32 to 158°F)

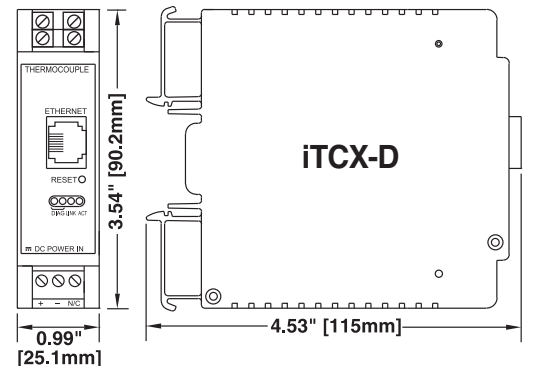
Storage Temperature:

-40 to 125°C (-40 to 257°F)



Dimensions shown in inches (mm)

	Input Type	Range	Accuracy
J	Iron - Constantan	-210 to 760°C / -346 to 1400°F	0.4°C / 0.7°F
K	CHROMEGLA®- ALOMEGA®	-270 to -160°C / -160 to 1372°C -454 to -256°F / -256 to 2502°F	1.0°C / 0.4°C 1.8°F / 0.7°F
T	Copper - Constantan	-270 to -190°C / -190 to 400°C -454 to -310°F / -310 to 752°F	1.0°C / 0.4°C 1.8°F / 0.7°F
E	CHROMEGLA®- Constantan	-270 to -220°C / -220 to 1000°C -454 to -364°F / -364 to 1832°F	1.0°C / 0.4°C 1.8°F / 0.7°F
R	Pt / 13%Rh-Pt	-50 to 40°C / 40 to 1768°C -58 to 104°F / 104 to 3214°F	1.0°C / 0.5°C 1.8°F / 0.9°F
S	Pt / 10%Rh-Pt	-50 to 100°C / 100 to 1768°C -58 to 212°F / 212 to 3214°F	1.0°C / 0.5°C 1.8°F / 0.9°F
B	30%Rh-Pt / 6%Rh-Pt	100 to 640°C / 640 to 1820°C 212 to 1184°F / 1184 to 3308°F	1.0°C / 0.5°C 1.8°F / 0.9°F
C	5%Re-W / 26%Re-W	0 to 2320°C / 32 to 4208°F	0.4°C / 0.7°F
N	Nicrosil - Nilil	-250 to -100°C / -100 to 1300°C -418 to -148°F / -148 to 2372°F	1.0°C / 0.4°C 1.8°F / 0.7°F
L	J DIN	-200 to 900°C / -328 to 1652°F	0.4°C / 0.7°F



Model No. Description

iTCX-W iServer MicroServer™ for dual thermocouple input. The iTCX-W includes 2 type K thermocouple with 1m (36") of 24 AWG PTFE insulated wire and a molded mini-connector with snap-on strain relief and universal (100 - 240 Vac) power adapter

iTCX-D DIN rail iServer industrial MicroServer™ for dual thermocouple input.

Accessories

iDRN-PS-1000 DIN rail power supply (switching), 95 to 240 Vac input, 24 Vdc out @ 850 mA (power up to 7 units)

CAL-3* NIST traceable calibration certificate. Three temperature points for each input (for new units). For * insert: **J, K, T, E, R, S, C, N (add -C for Celsius)**