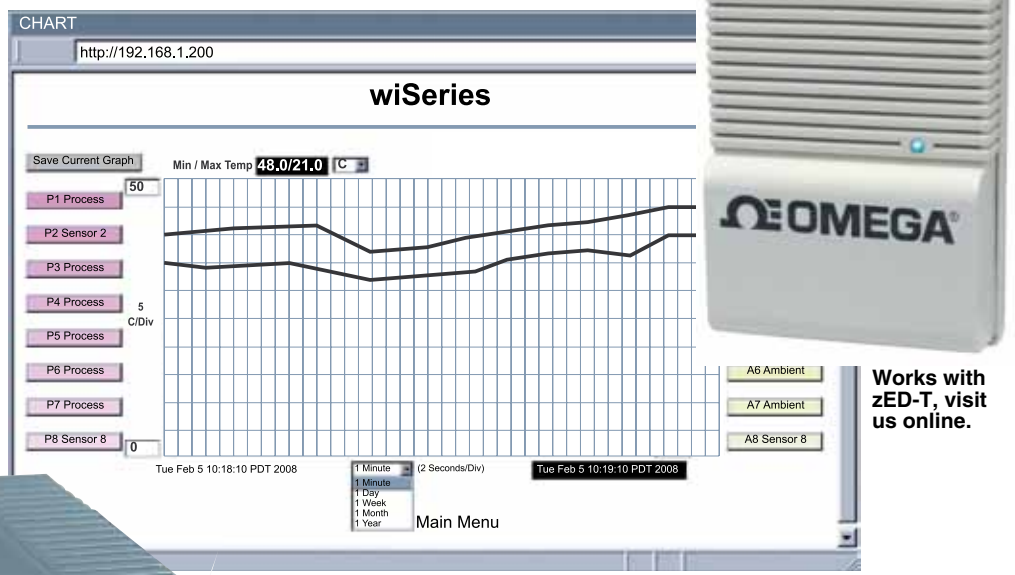
wireless *DIN Rail Monitor and Controller*

wiDR

1 YEAR WARRANTY

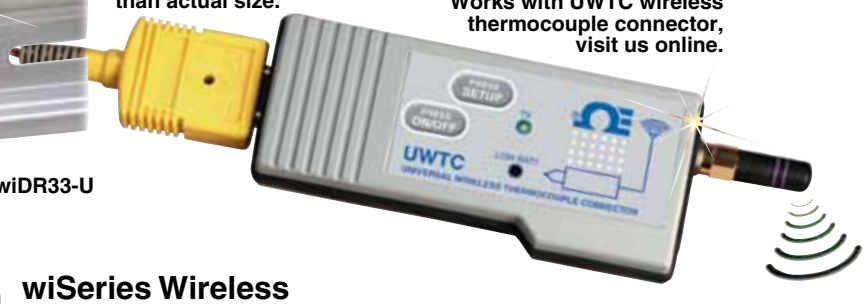


Works with zED-T, visit us online.

Wireless antenna with 0.3 m (1') cable included.

All models shown smaller than actual size.

wiDR33-U



Works with UWTC wireless thermocouple connector, visit us online.

wiSeries Wireless DIN Rail Monitoring and Control Device

The **OMEGA® wiSeries** DIN Rail wireless monitoring and control device is compatible with a large and growing number of OMEGA wireless sensors:

UWTC "Universal Wireless Thermocouple" Type J, K, T, E, R, S, B, N, and C.

UWRTD "Universal Wireless RTD"

zSeries Wireless End Devices with sensors for temperature.

The wiSeries wiDR DIN rail monitor and controller can monitor up to 8 wireless sensors.

The compact instrument connects directly to an Ethernet network and the Internet and features OMEGA's award-winning embedded Web Server. It is easily configured and monitored with a Web browser over the Ethernet network or the Internet.

Alternatively, the wiDR DIN rail monitor and controller can instead be connected to the USB port of a single computer with a "USB Ethernet Adaptor" that are inexpensive and widely available.

Monitor and Alarm

The wiDR meter-controller comes standard with a choice of either 2 Form C relays, or two SSRs (solid state relays) that can be used for control functions or alarms. The wiDR meter can monitor alarm conditions for any or all of the wireless sensors. For example, the wiDR meter can be set up to trip an alarm if any one of the sensors indicated it was above or below a pre-set alarm point.

wiSeries

- **User-Friendly, Simple to Configure**
- **Wireless Inputs: Thermocouple, RTD, Temperature**
- **Embedded Ethernet (Standard)**
- **2 Alarm Outputs: Solid State Relays (SSRs), DC Pulse, Mechanical Relays, Analog Voltage and Current**
- **Free Software**

Monitor and Control Locally and Over the Internet

The OMEGA® wiSeries wireless monitoring and control system provides local monitoring and control, along with remote Web-based monitoring of temperature from thermocouples, RTDs, and semiconductor sensors.

The wireless sensors transmit up to 1000 m (3280') (without obstructions or interference) to a wiSeries monitor-controller connected directly to an Ethernet network and the Internet. The wireless system complies with IEEE 802.15.4 operating at 2.4 GHz.

Note: *Distances for UWTC-1, UWRTD-1: up to 60 m (200'), UWTC-2, UWRTD-2: up to 120 m (400'), zED-x-P: up to 1000 m (3280'), zED-x: up to 90 m (300') all distances without obstructions or interference.*

The OMEGA wiSeries system lets you monitor and record temperature over an Ethernet network or the Internet without any special software—just your Web Browser.

Wireless Sensors

OMEGA offers a wide and growing selection of wireless sensors for a variety of applications. Depending on application, the wireless sensors are powered by 2 "AA" batteries, a single lithium battery (approx "AA" size), 2 D cell batteries or an external AC adaptor that operates on any voltage worldwide from 100 to 240 Vac.

Wireless sensors are available with external probes appropriate for an almost unlimited variety of industrial and commercial applications.

Ethernet

The wiDR monitor-controller is an independent node on the network sending and receiving data in standard TCP/IP packets. It is easily configured from a Web Browser and can be password protected. From within an Ethernet LAN or over the Internet, the user simply types the IP address (such as 192.168.1.200) or an easy to remember name (such as "Oven 5" or "Chicago Test Fixture") and the wiSeries meter serves a Web Page with the current readings.

Alarm and Email

The wiDR monitor-controller can trigger an alarm if variables go 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. The OMEGA "Mail Notifier" software is a free and easy program for this application.

The wiDR monitor-controllers operate on any AC voltage worldwide from 90 to 240 Vac and 50 to 60 Hz. The monitor-controller connects directly to an Ethernet Network or the Internet. Unlike an RS232 or USB device, it does not require a host computer.

Embedded Webserver

The OMEGA wiSeries wireless sensor system is easy to install, simple to operate, and features OMEGA's award-winning iServer technology with an Embedded Web Server that requires no special software.

Charts and Graphs

The OMEGA wiDR monitor serves active web pages to display real time readings and charts of temperature. You can also log data in standard data formats for use in a spreadsheet or data acquisition program such as Excel or Visual Basic. OMEGA offers a free and easy to use program for logging data to Excel.

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 wiSeries system there is no need to invest time and money learning a proprietary software program to log or chart the data.

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 (-40 to 125°C) or within any narrow range such as (20 to 30°C).

Specifications

Dimensions: 93 H x 39 W x 125 mm D (3.64 x 1.55 x 4.93")

Operating Temp: 0 to 55°C (32 to 131°F), 90% RH non-condensing

Line Voltage/Power: 90 to 240 Vac ±10%, 50 to 400 Hz*, 110 to 375 Vdc, equivalent voltage

***** *No CE compliance above 60 Hz*

Low Voltage/Power Option: 24 Vac**, 12 to 36 Vdc. External power source must meet Safety Agency Approvals

****** *Units can be powered safely with 24 Vac power, but no certification for CE are claimed.*

A complete wireless system requires at least 1 receiver (wiDRXX) and 1 end device (UWTC or zED).

To Order

Model No.	Description
wiDR33-U	Wireless meter/controller for UWTC units with 2 relays: form "C" SPDT 3 A @ 120 Vac, 3 A @ 240 Vac, embedded ethernet, 90 to 240 Vac/Vdc, 50 to 400 Hz
wiDR44-U	For UWTC units with two pulsed 10 Vdc @ 20 mA (for use with external SSR)
wiDR52-U	For UWTC units with analog output selectable as either control or retransmission of process value; 0 to 10 Vdc or 0 to 20 mA @ 500 Ω max and SSR
wiDR53-U	For UWTC units with analog output 0 to 10 Vdc or 0 to 20 mA @ 500 Ω max and form "C" relay
wiDR22-ZT	For zSeries units with two solid state relays (SSRs): 0.5 A @ 120/240 Vac continuous
wiDR23-ZT	For zSeries units with SSR and form "C" relay
wiDR24-ZT	For zSeries units with SSR and pulsed 10 Vdc @ 20 mA (for use with external SSR)
wiDR54-ZT	For zSeries units with analog output 0 to 10 Vdc or 0 to 20 mA @ 500 Ω max and pulsed 10 Vdc @ 20 mA (for use with external SSR) and SSR

Other outputs options are available, please contact our Engineering Department.
For low power option (12 to 36 Vdc, 24 Vac) add ***"-DC"*** *to model number for an additional cost, ex:* ***wiDR33-ZT-DC.***
Ordering Example: wiDR33-U, *wireless meter/controller for UWTC with 2 relays.*