



# wireless DIN Rail Monitor & Controller



- ✔ User-friendly, Simple to Configure
- ✔ Wireless Inputs: Thermocouple, RTD, Temperature + Humidity + Barometric Pressure
- ✔ Embedded Ethernet (standard)
- ✔ 2 Alarm Outputs: Solid State Relays (SSR's), dc Pulse, Mechanical Relays, Analog Voltage & Current
- ✔ Free Software

## wiSeries Wireless DIN Rail Monitoring and Control Device

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

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

**UWRD** "Universal Wireless RTD".

**zSeries wireless End Devices** with sensors for Temperature, Humidity & Barometric Pressure.

The **wiSeries wiDR** DIN Rail Monitor & Controller can monitor up to eight (8) wireless sensors.

The compact instrument connects directly to an Ethernet network and the Internet and features NEWPORT'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 & Controller can instead be connected to the USB port of a single computer with a "USB Ethernet Adapter" that are inexpensive and widely available.





### MONITOR AND ALARM

The **wiDR** meter-controller comes standard with a choice of either two Form C relays, or two SSR's (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.

### MONITOR & CONTROL LOCALLY AND OVER THE INTERNET

The new NEWPORT® **wiSeries** wireless monitoring and control system provides local monitoring and control, along with remote Web-based monitoring of temperature from T/C's, RTD's, and semiconductor sensors, as well as RH, and barometric pressure.

The wireless sensors transmit up to 1000m (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.

\* Distances for UWTC-1, UWRTD-1: up to 60m (200 ft), UWTC-2, UWRTD-2: up to 120m (400 ft), zED\*-P: up to 1000m (3280 ft), all distances are without obstructions or interference.

The NEWPORT **wiSeries** system let's you monitor and record temperature, relative humidity, and barometric pressure over an Ethernet network or the Internet without any special software--just your Web Browser.

### WIRELESS SENSORS

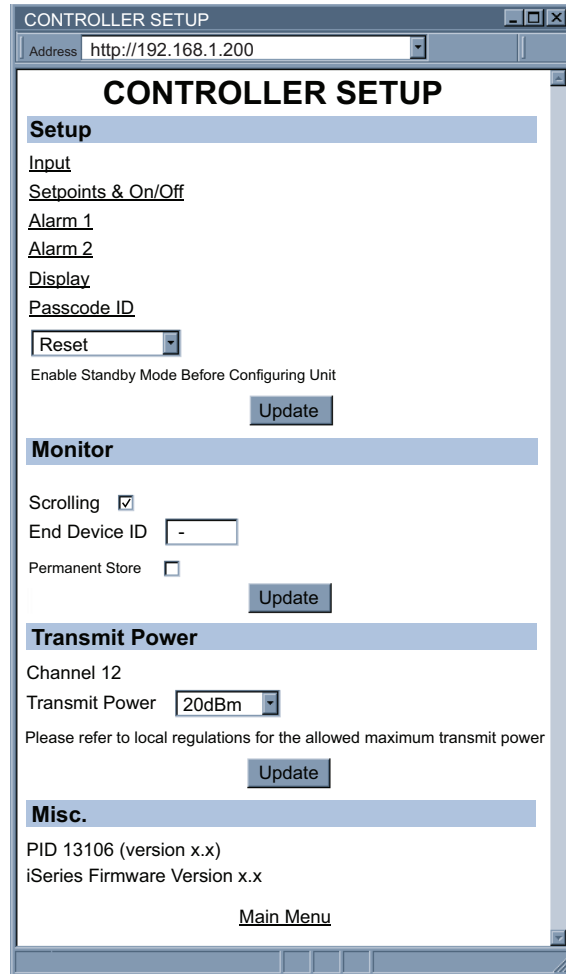
NEWPORT offers a wide and growing selection of wireless sensors for a variety of applications. Depending on application, the wireless sensors are powered by 2 AA batteries, a single lithium battery (approx. AA size), or an external AC Adapter that operates on any voltage worldwide from 100 to 240 VAC.

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



### ETHERNET

The **wiDR** 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) 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 NEWPORT "Mail Notifier" software is a free and easy program for this application.

The **wiDR** monitor-controllers operate on any AC voltage worldwide from 100 to 240 Vac and 50 to 60Hz. 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.

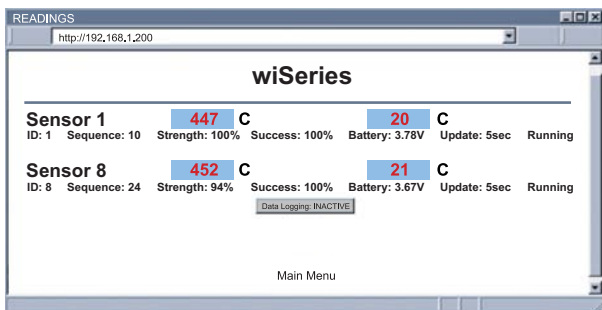
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## EMBEDDED WEBSERVER

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

## CHARTS AND GRAPHS

The NEWPORT wiDR monitor serves Active Web Pages to display real time readings and charts of temperature, humidity, and barometric pressure. You can also log data in standard data formats for use in a spreadsheet or data acquisition program such as Excel or Visual Basic. NEWPORT offers a free and easy to use program for logging data to Excel.



Temperature Readings of up to 8 Sensors

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 NEWPORT 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 and humidity can be charted across the full span (-40 to 125°C, and 0 to 100% RH) or within any narrow range such as (20 to 30°C).

## QUALITY and TECHNOLOGY

Designed and manufactured in the USA, the innovative NEWPORT® wiSeries of meters & controllers features an extended one (1) YEAR warranty at no extra charge.

## SPECIFICATIONS

### Control Output 1 & 2

**Relay:** 250Vac or 30Vdc @ 3A (resistive load); configurable for ON/OFF

### Output 1:

SPDT type, can be configured as Alarm 1 output.

### Output 2:

SPDT type, can be configured as Alarm 2 output

### SSR:

20-265Vac @ 0.05 - 0.5A (resistive load); continuous

**DC Pulse:** Non-Isolated; 10 Vdc @ 20 mA

### Alarm 1 & 2 (programmable)

**Type:** Same as Output 1 and 2

**Operation:** High/low, above/below, band, latch/unlatch, normally open/normally closed and process/deviation

**Analog Output (programmable):** Non-Isolated, Retransmission 0 to 10Vdc or 0 to 20mA, 500Ω max (Output 1 only). Accuracy is ± 1% of FS when following conditions are satisfied.

- 1) Input is not scaled below 1% of Input FS.
- 2) Analog Out is not scaled below 3% of Output FS.

### Network and Communications

**Ethernet:** Standard Compliance IEEE 802.3 10Base-T

**Supported Protocols:** TCP/IP, ARP, HTTPGET

**Connection:** Screw terminals

### General

#### Dimensions:

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

#### Operating Temperature:

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

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

\* No CE compliance above 60 Hz

#### Low Voltage/Power Option:

24 Vac\*\*, 20 - 36 Vdc. External power source must meet Safety Agency Approvals

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

To Order (Specify Model No.)		
Model No.	Price	Description
wiDR33-U	\$395	Wireless Meter/Controller for UWTC units with 2 Relays: Form "C" SPDT 3 A @ 120 Vac, 3 A @ 240 Vac, Embedded Ethernet, 90-240 Vac/dc, 50-400 Hz
wiDR44-U	395	For UWTC units with Two Pulsed 10 Vdc @ 20 mA (for use with external SSR)
wiDR52-U	395	For UWTC units with Analog Output selectable as retransmission of process value; 0 to 10 Vdc or 0-20 mA @ 500 ohm max. and SSR
wiDR53-U	395	For UWTC units with Analog Output 0 to 10 Vdc or 0-20 mA @ 500 ohm max. and Form "C" Relay
wiDR22-Z	395	For zSeries units with Two Solid State Relays (SSR's): 0.5 A @ 120/240 Vac continuous
wiDR23-Z	395	For zSeries units with SSR and Form "C" Relay
wiDR24-Z	395	For zSeries units with SSR and Pulsed 10 Vdc @ 20 mA (for use with external SSR)
wiDR54-Z	395	For zSeries units with Analog Output 0 to 10 Vdc or 0-20 mA @ 500 ohm max. and Pulsed 10 Vdc @ 20 mA (for use with external SSR) and SSR

Other outputs options are available, please contact our Sales Department.

For Low Power Option (12-36Vdc, 24Vac) **add -DC** to end of part number: **wiDR33-Z-DC** \$395 + 25 = \$420.