



# Wireless Receiver with RS-232 Interface OMWT-REC232

**\$222**  
Basic Unit



- ✓ High Performance 418 MHz Receiver
- ✓ Serial Connection Directly to PC
- ✓ Powered by RS-232 Port or External Source
- ✓ ASCII Radio Packet Data Output
- ✓ Decodes CRC-16 Error Encoded Radio Packets
- ✓ Up to 180 m (600') Range
- ✓ Receives Data from up to 100 OMWT Series Wireless Transmitters

The OMWT-REC232 is a 418 MHz radio receiver designed to receive and decode packet data from all OMWT Series wireless transmitters. The OMWT-REC232 decodes the CRC-16 encoded packets and translates them to ASCII strings that are sent out the RS-232 serial port to the PC at 19200 Baud. No hardware handshaking or command protocol is required; all data packets are decoded and transmitted serially as they are received. The OMWT-REC232 is very low power; most RS-232 ports provide enough power to operate the receiver. External power input is provided for host serial ports that cannot provide the necessary current. A simple design approach results in a low cost receiver that provides error checked ASCII data for all OMWT series wireless transmitters.

The OMWT-REC232 is supported by the OMWT-SOFT Windows software. This makes connecting all OMWT Series wireless transmitters to your PC easy.



OMWT-REC232,  
\$222, shown  
smaller than  
actual size

OMWT-SOFT, \$100, displays  
real-time historical chart or  
numerical data

## Software

The OMWT-SOFT Windows software shows trends, minimum and maximum values and also indicates alarms. All data collected may be viewed graphically in real time or as a historical display. ASCII data logging to a file is also available to allow import into other programs such as spreadsheets and data base programs. OPC (OMWT-SOFT-OPC) and DDE (OMWT-SOFT-DDE) server software is also included. OMWT-SOFT can be used to collect data from a wireless network. Currently supported sensors include:

OMWT-TEMP15 Temperature  
OMWT-TEMPRH Humidity  
OMWT-AIN5V Analog 5 Volt  
OMWT-AIN10V Analog 10 Volt  
OMWT-AIN20MA Analog 20 MA  
OMWT-VIB Vibration  
OMWT-MOT Motion

OMWT-SOFT is actually a DDE client application that works in concert with the included DDE server application called OMWT-SOFT-DDE.

OMWT-SOFT-DDE handles the details of communicating or receiving data from the wireless sensors.

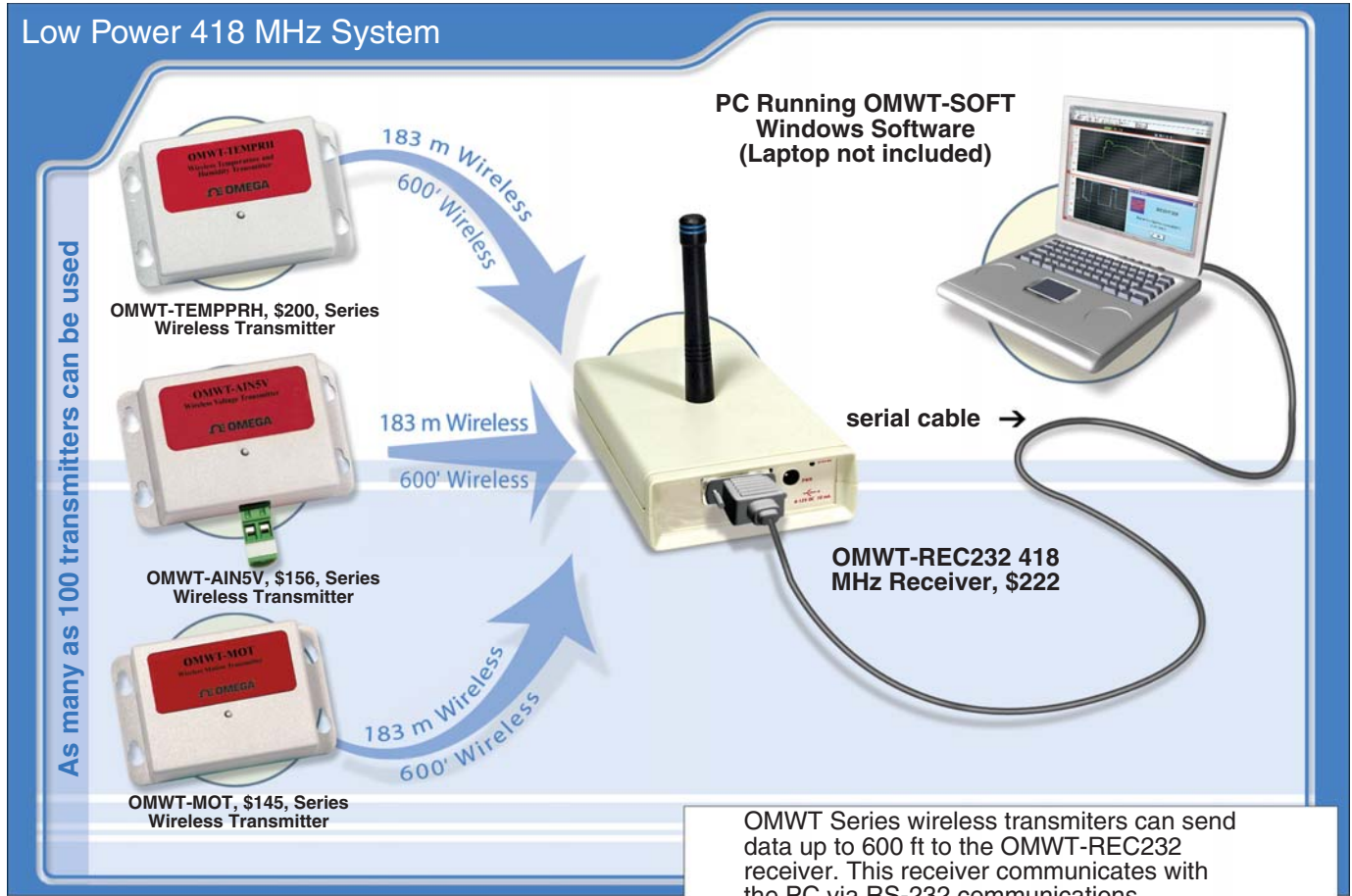
OMWT-SOFT-DDE verifies that the communication is correct, processes the sensor samples and then forwards the data to the DDE client.

The OMWT-SOFT Windows software is responsible for the presentation and analysis of the collected data.

The OMWT-SOFT Windows software can receive data from up to 100 of the OMWT Series wireless sensors, however it can only display data from up to six sensors at a time. If more than six sensors need to be displayed at any given time then the included OPC or DDE server software can be used to transfer data to other third party SCADA software packages.

## OMWT Series Wireless Transmitters with Receiver

### Low Power 418 MHz System



### Specifications

**Supply Voltage:** 5.0 Vdc min, 12 Vdc typical, 16 Vdc max  
**Supply Current:** 18 mA min, 20 mA typical, 25 mA max  
**Transmission Range:** 180 m (600')  
**Transmission Frequency:** 418 MHz

**Baud Rate:** 19200

**Operating Temperature:** -40 to 85°C (-40 to 185°F)

**Storage Temperature:** -40 to 85°C (-40 to 185°F)

**Humidity:** 10 to 90% RH non-condensing

**Dimensions (with antenna):** 57 H x 79 W x 57 mm D (2.25 x 3.125 x 2.25")

**Weight:** 85 g (3 oz)



OMWT-SOFT, \$100

OMWT-REC232, \$222, shown smaller than actual size



**AVAILABLE FOR FAST DELIVERY!**

### To Order (Specify Model Number)

Model No.	Price	Description
OMWT-REC232	\$222	Wireless receiver with RS-232 interface
OMWT-SOFT	100	OMWT Series Windows software
CS-3780	20	Reference Book: Starting Electronics

Each unit comes with complete operator's manual.

OMWT-REC232 wireless receiver is supplied with 1.8 m (6') RS-232 cable with DB9F connection to PC and 110 Vac adaptor.

**Ordering Example:** OMWT-REC232 wireless receiver and OMWT-SOFT Windows software, \$222 + 100 = \$322.



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