

# Wireless Voltage Transmitter

OMWT-AIN10V  
Starts at  
**\$156**



- ✓ Transmits up to 180 m (600')\*
- ✓ 12-Bit Analog to Digital Conversion
- ✓ 0 to 10 Vdc Range
- ✓ Transmits Unique ID and Analog Value
- ✓ Up to 100 Transmitters Can Coexist
- ✓ Compact ABS Enclosure
- ✓ Internal Loop Antenna

The OMWT-AIN10V Wireless Voltage Transmitter is a battery operated 12-bit analog-to-digital converter with a microprocessor controlled 418 MHz FCC certified radio transmitter. The OMWT-AIN10V has an on board time of day clock that allows it to spend most of the time in a low power quiescent state. At predetermined time intervals the clock will wake up the onboard microprocessor. Unique serial number information is read from a semiconductor digital device and analog data is read from a 12-bit analog to digital converter. This information is combined with a CRC-16 error check and transmitted in a very short data packet that results in a transmitter on time of only 15 milliseconds. This architecture allows the OMWT-AIN10V to consume very low energy resulting in a battery life of up to 2 years.

The electronics are coated with a conformal rubber material that provides a moisture barrier against condensation. Submersion in water is not recommended. A hole in the top ABS cover permits a special tool to be inserted to activate the service switch. The OMWT-AIN10V is shipped with the transmitter turned off (anytime the device is to be shipped the transmitter should be turned off or must be placed in a shielded container to prevent interference that might cause shipping problems).

Start the device by momentarily pushing the service switch (you will feel the button click). When the service switch is pushed a data

transmission occurs immediately and a special mark is introduced in the ID field of the transmitted data packet to indicate which device is in service or installation. The service switch is also used to put the device in a quiescent mode (no transmissions and very low power consumption). This is the state the device is in when you receive it. Push and hold the service switch for 10 seconds or ore to enter this powered down state.



OMWT-AIN10V, \$156, shown larger than actual size.

Using the OMWT Series Windows software incoming data being received from OMWT Series Wireless Transmitters can be viewed in a real-time or historical time-base chart or numerical view. High/low alarms can also be set for each transmitter signal with either a visual or audible alarm indication on the PC. Data can also be logged to disk at a user-specified rate in a text file format that can be opened up into Microsoft Excel. The OMWT Series Windows software also includes a DDE Server that can interface the data being received from OMWT Series Wireless Transmitters to other Windows software packages.



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

## Specifications

**Voltage Input Range:** 0 to 10 Vdc  
**Input Impedance:** 100 K $\Omega$   
**A/D Resolution:** 12-bit  
**Accuracy:**  $\pm 0.15\%$  FSR  
**Transmission Frequency:** 418 MHz  
**Transmission Rate:** 10 to 17 seconds random  
**Transmission Range\*:** Up to 180 m (600') depending on environmental conditions

**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  
**Battery:** 3.6 V lithium battery (included)  
**Battery Life:** 2 years  
**Shelf Life with Battery Installed:** 5 years in quiescent mode  
**FCC Certified:** FCC ID: M5ZANA  
**Dimensions:** 38 H x 53 W x 15 mm D (1.5 x 2.1 x 0.6")  
**Weight:** 43 g (1.5 oz)

**AVAILABLE FOR FAST DELIVERY!**

To Order (Specify Model Number)		
Model No.	Price	Description
OMWT-AIN10V	\$156	Wireless voltage transmitter, 0 to 10 Vdc input range
OMWT-REC232	222	Wireless receiver and 1.8 m (6') RS-232 cable
OMWT-SOFT	100	OMWT Series Windows software (WIN95/98/NT/2000/XP)
OM-NOMAD-BATT	12	Replacement 3.6 V lithium battery
CS-3792	80	Reference Book: Complete Digital Signal Processing

Comes complete with operator's manual.  
 \* Depending on environmental conditions

**Ordering Example:** OMWT-AIN10V wireless voltage transmitter, OMWT-REC232 wireless receiver and OMWT-SOFT Windows software, \$156 + 222 + 100 = \$478.