Wireless Motion Transmitter

OMWT-MOT
Starts at
$145

1 YEAR WARRANTY — MADE IN USA

☑ **Transmits up to 180 m (600') ***
☑ **Digital Motion Measurement via Internal Weighted Accelerometer**
☑ **64-Bit Unique ID**
☑ **Compact ABS Enclosure**
☑ **Complies With Part 15 of the FCC Rules**
☑ **Internal Loop Antenna**

The OMWT-MOT Wireless Motion Transmitter is a battery operated digital vibration sensor with a microprocessor controlled 418 MHz FCC certified radio transmitter. This transmitter is useful in applications that need to sense when motion is present or not. The OMWT-MOT 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 and digital vibration data 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-MOT 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. An integral pushbutton is used to activate the service switch. The OMWT-MOT 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 more to enter this powered down state.

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.

Specifications

Motion Range: Not a calibrated range (transmits a value of 0 to 100%)
Transmission Frequency: 418 MHz
Transmission Range*: Up to 180 m (600') depending on environmental conditions
Transmission Rate: 30 to 37 seconds
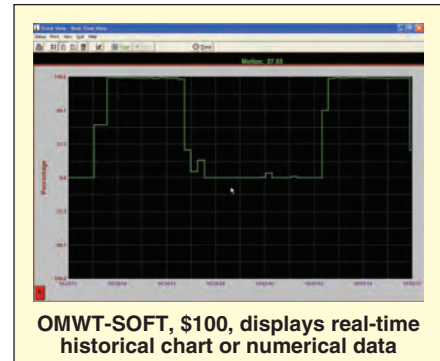**Operating Temperature:** -40 to 85°C (-40 to 185°F)
Storage Temperature: -40 to 85°C (-40 to 185°F)

OMWT-MOT, $145, shown larger than actual size.

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

Humidity: 10 to 90% RH non-condensing
Battery: 3.6 V lithium battery (included)
Battery Life with Transmissions: 2 years
Shelf Life with Battery Installed: 4 years in quiescent mode
FCC Certified: FCC ID: M5ZVM1
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-MOT	$145	Wireless motion transmitter
OMWT-REC232	222	Wireless receiver and 1.8 m (6') RS-232 cable with DB9F termination
OMWT-SOFT	100	OMWT Series Windows software (WIN95/98/NT/2000/XP)
OM-NOMAD-BATT	12	Replacement 3.6 V lithium battery
CS-3772	50	Reference Book: Open-Source Robotics and Process Control Cookbook

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

Ordering Example: OMWT-MOT *wireless motion transmitter,* **OMWT-REC232** *wireless receiver and* **OMWT-SOFT** *Windows software, $145 +222 + 100 =* **$467.**

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