

Wireless Current Transmitter

OMWT-AIN20MA



- ✓ Transmits up to 180 m (600')*
- ✓ 12-Bit Analog to Digital Conversion
- ✓ 0 to 20 mA Range
- ✓ Transmits Unique ID and Analog Value
- ✓ Up to 100 Transmitters Can Coexist
- ✓ Compact ABS Enclosure
- ✓ Internal Loop Antenna

The OMWT-AIN20MA Wireless Current Transmitter is a battery operated 12 bit analog-to-digital converter with a microprocessor controlled 418 MHz. FCC certified radio transmitter. The OMWT-AIN20MA 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-AIN20MA 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-AIN20MA 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 from the manufacturer. 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.

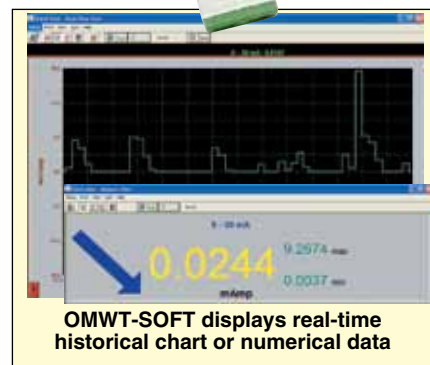
Specifications

Current Input Range: 0 to 20 mA
Input Impedance: 120 Ω
A/D Resolution: 12-bit
Accuracy: ±0.15% FSR
Transmission Frequency: 418 MHz
Transmission Rate: 10 to 17 seconds random
Transmission Range*: Up to 1.8 m (600') depending on environmental conditions

OMWT Series wireless voltage, motion and vibration transmitters also available. Visit omega.com for details.



OMWT-AIN20MA shown larger than actual size.



OMWT-SOFT displays real-time historical chart or numerical data

Operating Temperature: -40 to 85°C (-40 to 185°F)
Storage Temperature: -40 to 85°C (-40 to 185°F)
Humidity: 0 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)

To Order Visit omega.com/omwt-ain20ma for Pricing and Details

Model No.	Description
OMWT-AIN20MA	Wireless current transmitter
OMWT-REC232	Wireless receiver and 1.8 m (6') RS-232 cable with DB9F termination
OMWT-SOFT	OMWT Series Windows software
OM-NOMAD-BATT	Replacement 3.6 V lithium battery

Comes complete with operator's manual.

* Depending on environmental conditions

Ordering Example: OMWT-AIN20MA wireless current transmitter, OMWT-REC232 wireless receiver and OMWT-SOFT Windows software.