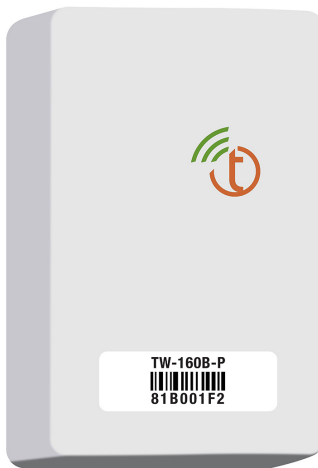# MDT - Metering Data Transceiver

The Tehama Wireless MDT records data from various meter types and transmits the data via radio towards the DCAP. It is compatible with most utility meters used for submetering and sends the meter reading data every hour.

The standard unit is powered by two AA batteries providing a five year battery life under normal conditions. An optional line powered variations are also available for most models.

Enhanced features and input options beyond simple pulse counting can be ordered from Tehama Wireless to allow collection and transmission of additional information relevant to submetering in the multifamily housing market. These include:

- Time of Use (ToU) interval data with on-board memory and time-stamping at 15 minute or 5 minute intervals
- 2nd Pulse input
- Encoded meter input (Sensus or Neptune)
- Temperature measurement (on-board or with external probe)
- 24VAC and dry contact Runtime counter

Specifications

Inputs Options	• Pulse signal from electric, run-time, gas or water meters • Encoded protocol of Neptune or Sensus • Optional temperature sensor • Hersey pulse water meter • Other inputs also supported
MDT Data Storage	• TW-160B-P: None • TW-160xx-PTx: Over 4000 data pts. (31+ days @ 15 Min interval)
Data Resolution	• TW-160B-P: 1 hour interval • TW-160xx-PT: 15 minute interval standard, Optional 5 min available
Radio	902 – 928 MHz; FCC Certified; Open field range of up to 2000 feet*
LED	Indicates on/off and RF network connection status
Operating Environment	-20 to 145 degree F, up to 90% RH, non-condensing.
Power	• Two AA Alkaline (standard) • Two AA Lithium (Optional, for colder temperatures) • 9V to 15V DC input (Optional, from wall transformer or certain electric meters)
Typical Battery Life	5 years @ 50 to 90 deg. F, Reduced at extreme temperatures
Dimensions	4.3" x 2.2" x 1.2"

Continual product enhancements may cause specifications to change without notice.

*Actual range may vary depending on installation location and topography.

Models

Battery powered		
Pulse MDT, battery powered	TW-160B-P	Single pulse input counter, one hour interval data, no on-board memory
Pulse MDT, ToU, Battery Powered	TW-160B-PT	Single Pulse input, 15 minute guaranteed(*) Time-of-Use interval data with on-board data memory
Encoder MDT, battery powered	TW-160B-E	Single Encoder (Neptune, Sensus) Register input, one hour interval, no on-board memory.
Hersey Compatible MDT, battery Power.	TW-160B-Y	Single Hersey-only pulse input, one hour interval, no on-board memory
Runtime MDT, Battery powered	TW-160B-R	24VAC zone valve runtime counter. Counts seconds and circuit fault status. 1-hr interval Tx.
External Powered		
Pulse MDT	TW-160LC-P	Single pulse input counter, one hour interval data, no memory. DC9-15V input with screw terminals.
Pulse MDT, ToU,	TW-160LC-PT	Single Pulse input, 15 minute guaranteed(*) Time-of-Use interval data with on-board data memory. DC9-15V input with screw terminals
Pulse MDT, ToU, tamper	TW-160LC-PTC	Above with added door/tamper contact input.
Multi-input		
Dual Pulse MDT, Battery Power	TW-160B-PP	Dual pulse input counters, one hour interval data, no on-board memory
Encoder MDT plus Pulse, Battery Power	TW-160B-EP	Encoder plus Pulse input, one hour interval data, no on-board memory
Pulse MDT, Internal Temp, Battery Power	TW-160B-PI	Single Pulse input, Internal temperature, 1-Hr interval data, no on-board memory
Pulse MDT, ToU, Internal Temp, Battery Power	TW-160B-PIT	Single Pulse input, Internal temp., 15 minute guaranteed(*) Time-of-Use interval data with on-board data memory
Runtime MDT, External Temp, Battery Power	TW-160B-RX	24VAC zone valve runtime counter with external temperature (probe sold separately). Counts seconds "On" and circuit fault status. One hour interval Tx.

*: Adequate repeater coverage is required for guaranteed delivery.
Most multi-input features can be applied to externally powered units. Other combinations and sensor inputs are available by special order. Please contact Tehama for details.

Contact us:

Tehama Wireless
2607 7th Street, Suite G
Berkeley, CA 94710
415.495.7344
info@TehamaWireless.com
www.TehamaWireless.com

Made in USA

©2016 Tehama Wireless Design Group
Rev.1607