

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
- Neptune encoded meter input
- Temperature measurement (on-board or with external probe)
- 24VAC Runtime timer/counter

Specifications

Inputs Options	<ul style="list-style-type: none"> • Pulse signal from electric, run-time, gas or water meters • Neptune encoded protocol • Optional temperature sensor • Hersey pulse water meter • Other inputs also supported
MDT Data Storage	<ul style="list-style-type: none"> • TW-140B-P: None • TW-140xx-PTx: Up to 3000 data pts. (~28 days @ 15 Min interval)
Data Resolution	<ul style="list-style-type: none"> • TW-140B-P: 1 hour interval • TW-140xx-PT: 15 minute interval standard, Optional 5 min available
Radio	902 – 928 MHz; FCC Certified; Open field range of up to 1800 feet*
LED	Indicates on/off and RF network connection status
Operating Environment	-20 to 145 degree F, up to 90% RH, non-condensing.
Power	<ul style="list-style-type: none"> • 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	• Up to 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-140B-P	Single pulse input counter, one hour interval data, no on-board memory
Pulse MDT, ToU, Battery Powered	TW-140B-PT	Single Pulse input, 15 minute guaranteed(*) Time-of-Use interval data with on-board data memory
Neptune Encoder MDT, battery pwr.	TW-140B-N	Single Neptune ProRead Encoded Register input, one hour interval, no on-board memory
Hersey Compatible MDT, battery pwr.	TW-140B-Y	Single Hersey-only pulse input, one hour interval, no on-board memory
Runtime MDT, Battery powered	TW-140B-R	24VAC zone valve runtime counter. Counts seconds "on" and circuit fault status. 1-hr interval Tx.
External Powered		
Pulse MDT, ext. pwr via pwr connector	TW-140LJ-P	Same as TW-140B-P but externally DC9-15V powered. Wall pwr transformer sold separately.
Pulse MDT, external pwr via power leads	TW-140LW-P	Same as TW-140LJ-P but with power leads instead of connector
Pulse MDT, ToU, ext. pwr w/ pwr connector	TW-140LJ-PT	Same as TW-140B-PT but externally DC9-15V powered. Wall pwr transformer sold separately.
Pulse MDT, ToU, ext. pwr via power leads	TW-140LW-PT	Same as TW-140LJ-PT but with power leads instead of power connector.
Multi-input		
Dual Pulse MDT, Battery Pwr	TW-140B-PP	Dual pulse input counters, one hour interval data, no on-board memory
Pulse MDT, Internal Temp, Battery Pwr	TW-140B-PI	Single Pulse input, Internal temperature, one hour interval data, no on-board memory
Pulse MDT, External Temp, Battery Pwr	TW-140B-PX	Single Pulse input, Ext. temperature (probe sold separate), 1-Hr interval data, no on-board memory
Pulse MDT, ToU, Internal Temp, Battery Pwr	TW-140B-PIT	Single Pulse input, Internal temp., 15 minute guaranteed(*) Time-of-Use interval data with on-board data memory
Runtime MDT, Internal Temp, Battery Pwr	TW-140B-RI	24VAC zone valve runtime counter with internal temperature. 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.

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