

MDT - Metering Data Transceiver Line Powered



The Tehama Wireless MDT records data from various meter types and transmits the data via radio towards the DCAP. It is compatible with most pulse-output utility meters and sends an incrementing pulse count total every hour.

The line-powered version is powered by an externally supplied 9 to 15 VDC source. The power connection can be via factory installed wire leads or an optional power supply. Also available is a battery powered version using two AA batteries with a typical five year battery life.

Enhanced features beyond simple pulse counting can be ordered from Tehama to allow collection and transmission of additional information relevant to the multi-family housing market.

Among the enhanced features that can be ordered are:

- Time of Use data with on-board memory & time-stamping at 15 or 5 min. intervals
- 2nd pulse input
- Temperature measurement (on-board or with external probe)

Specifications

Inputs	<ul style="list-style-type: none"> • Pulse signal from electric, run-time, gas or water meters • Optional temperature sensor • Other inputs also supported
Data Storage	<ul style="list-style-type: none"> • TW-140Lx-P: None • TW-140Lx-PTx: up to 3000 data points (~28 days @ 15 min. intervals)
Data Resolution	<ul style="list-style-type: none"> • TW-140Lx-P: 1 hour interval • TW-140Lx-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 Network connection status
Operating Environment	-20 to 145 degree F, up to 90% RH, non-condensing
Power	<ul style="list-style-type: none"> • TW-140LW-P: 9V to 15V DC input to wire leads from external source • TW-140LJ-P: 9V to 15V DC input to barrel connector from optional wall transformer
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

MDT, Line Powered with Power Jack	TW-140LJ-P	Single pulse input counter, one hour interval data, no on-board memory. DC9-15V input. 2.1 X 5.5 mm barrel connector.
MDT, Line Powered with Power Leads	TW-140LW-P	Single pulse input counter, one hour interval data, no on-board memory. DC9-15V input. Factory installed 24-inch wire pair.

MDT Adders	Suffix	Description
Interval Data (ToU)	T	Add 15 minute guaranteed* Time-of-Use interval data with on-board data memory for up to 30 days storage
2nd Pulse input	P	Add 2nd Pulse counter input
Temperature Internal	I	Add Internal on-board temperature monitoring
Temperature External	X	Add External probe temperature monitoring. Probe sold separately
Contact Closure	C	Add dry contact state change recording with time stamping

*Adequate repeater coverage is required for guaranteed message delivery

Examples Model Callouts:

TW-140LW-PP	Line Powered (Leads), Dual Pulse Input
TW-140LW-PT	Line Powered (Leads), Pulse input, Time of Use
TW-140LJ-PIT	Line Powered (Jack), Pulse input, Internal Temp., Time of Use
TW-140LW-PI	Line Powered (Jack), Pulse with Internal Temperature
TW-140LW-PITC	Line Powered (Leads), Pulse input, Internal Temp, Time of Use, Door Contact.

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