



MDT

Outsider™ Transceiver

Standard, MAX, and LoRaWAN Systems

Product Overview

The Outsider™ MDT combines direct meter reading with our proven AMR radio to provide an instant and error-free assembly process. Our Outsider™ MDT slides directly onto the register housing of all NMT SingleMag™ and VersaMag™ water meters, secured by a single screw. With no wiring involved, we have eliminated the common errors that can occur during shipment and installation.

All MDTs are powered by two inexpensive field-replaceable AA batteries. The Outsider™ MDT includes the radio with reed switch and batteries, case with locking ring, and screw for securing it to the meter register.

- Easy-to-Install: Slides onto the register of any NMT SingleMag™ or VersaMag™ water meter and eliminates the wiring for simplified installation.
- Plumber installations: With the integrated meter and MDT, a plumber can install everything at each meter point without manipulating any wiring.
- Reliable: Combining the proven technologies of Tehama and NMT in an easy to install system helps ensure proper and long-lasting installations.

Specifications

Meter Compatibility	NMT SingleMag™ or VersaMag™ water meter. Water meter is not included with Outsider™ MDT when purchased from Tehama.
Data Resolution	1-hour interval, Immediate transmission if water is detected
Radio	902 – 928 MHz; FCC and IC Certified; Open field range nearly 2 miles (Standard Range Models) * Open field range nearly 10 miles (LoRaWAN & Max Range Models) *
LED	Indicates RF network connection status
Operating Environment	-20° to 145° F, up to 90% RH, non-condensing
Power	Two replaceable AA batteries, up to eight years life under normal conditions
Typical Battery Life	6-8 years @ 50° to 90° F, reduced at extreme temperatures
Dimensions	4.1" x 3.5" x 1.1"
Warranty	Five years. For more detailed information, please visit our warranty page . Note that the warranty does not cover batteries.

Continual product enhancements may cause specifications to change without notice.

*Actual range may vary depending on installation location and topography

Models

Standard System		
Outsider™ MDT	TW-162	Standard range AMR radio with integrated reed switch and special fitting enclosure. Single pulse MDT, one-hour interval data, no on-board memory.
MAX System		
Outsider™ MDT	TW-172	Max Range AMR radio with integrated reed switch and special fitting enclosure. Single pulse MDT, one-hour interval data, no on-board memory.
LoRaWAN System		
Outsider™ MDT	TW-182	LoRaWAN AMR radio with integrated reed switch and special fitting enclosure. Single pulse MDT, one-hour interval data, no on-board memory.

*Water meter not included if purchased from Tehama.

Note Standard, LoRaWAN and MAX Range systems are NOT compatible with each other. MAX MDTs must be used with MAX Repeaters and DCAPs; likewise for Standard. LoRaWAN uses Gateways.

Refer to [AN-119](#) for more information. Also available in the Support/Documents section of our website.



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