

TTDM-NMM

TraceTek Leak Detection and Location Network Master Module

Easy setup and simple operation

The TTDM-NMM unit monitors up to 5000 ft (1500 m) of cable and 15 TTDM-SIM units. Separate LEDs give clear indication of system status. When liquid is detected on any channel, the TTDM-NMM unit sounds an alarm and displays the channel number and location of the leak. The TTDM-NMM continues to monitor all channels and will re-alarm if there are any major changes. Once the alarm condition has been cleared, the module is reset with a single keystroke. As with all TraceTek modules, no calibration is required.

Full featured

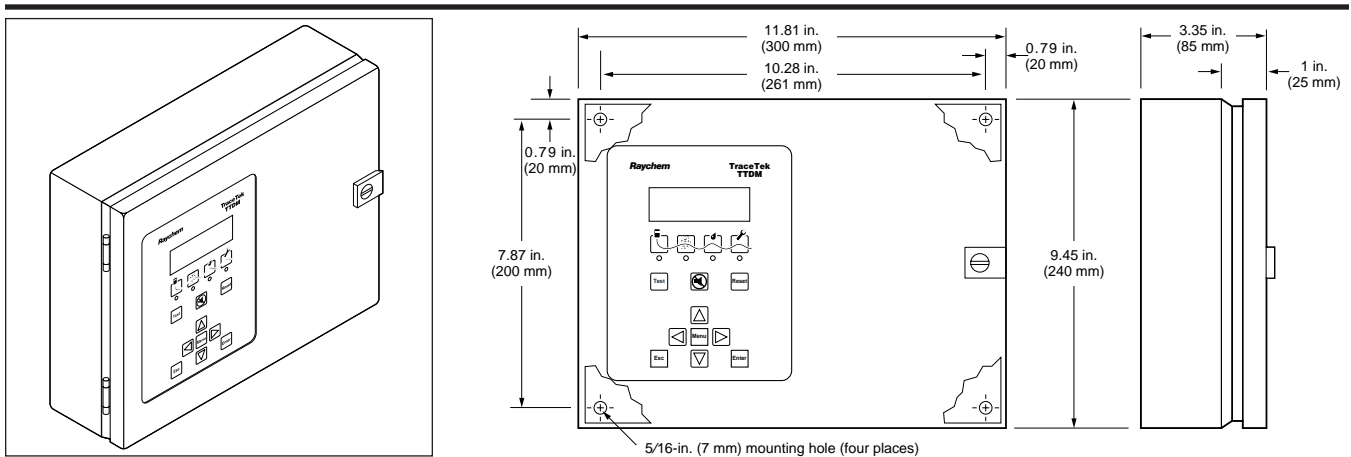
The TTDM-NMM incorporates the following features:

- The unit has built-in system-wide diagnostic functions.
- In addition to detecting leaks, the TTDM-NMM unit warns of fault conditions and indicates when service is required.
- An events history log allows leaks (and other events) to be tracked for the NMM and each attached TTDM-SIM unit.
- Both the events history log and any user settings are held in nonvolatile memory.

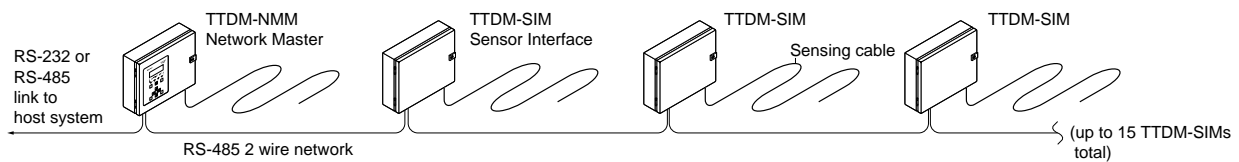
Versatile design

The settings can be customized to suit the user's application:

- User selectable units: feet, meters, or zones
- Two different interface types for connection to building management and process control systems:
 - Three alarm status relays
 - RS-232/RS-485 serial port
- Three voltage ranges (115 Vac, 230 Vac, 24 Vac/Vdc)



TraceTek network arrangement



General features

Sensing cable compatibility

All TT1000, TT3000, and TT5000 series sensing cables
All TT100, TT300, and TT500 series long-line sensing cables

Maximum size of network

Number of TTDM-SIMs	15 plus SI in TTDM-NMM
Maximum length of sensing cables	16 X 5000 ft (1500 m); total 80,000 ft
Maximum number of zones	16 X 100; total 1600 zones
Precision	±0.1% of connected sensing cable length
Units	Feet, meters, zones (selectable)
Language	English

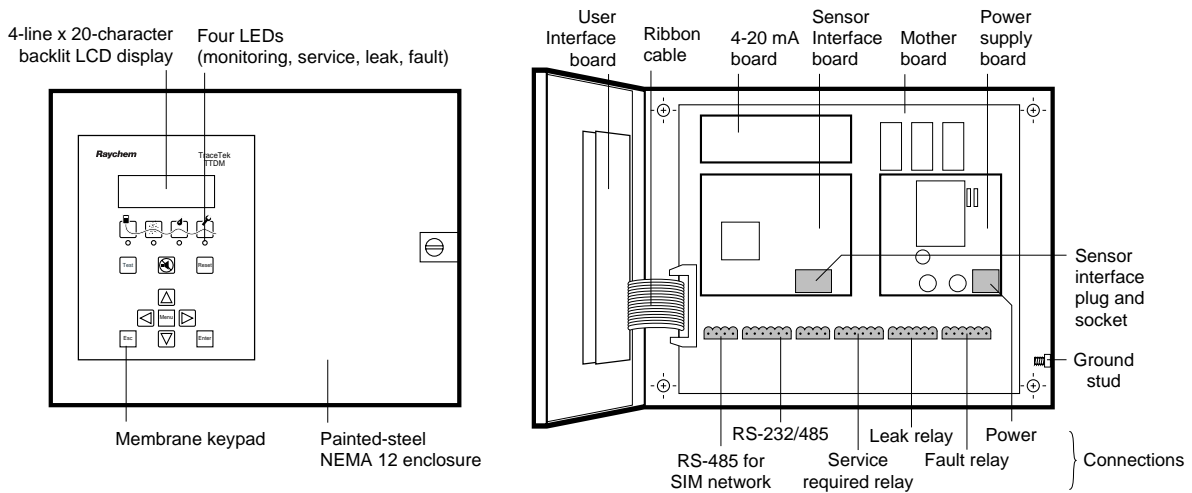
Ordering Information

Catalog Number

Description

Supply voltage	TTDM-NMM-24	24 Vac +5%, -35%; 24 Vdc ±20%
	TTDM-NMM-1	115 V +15%, -20%; 50/60 Hz
	TTDM-NMM-2	230 V ±10%; 50/60 Hz
Spares	TTDM-PS24	24 Vac/dc power supply
	TTDM-PS1	115 Vac power supply
	TTDM-PS2	230 Vac power supply
	TTDM-SI	Sensor interface
	TTDM-MB	Motherboard
	TTDM-NMM-UI	Network mstr user interface

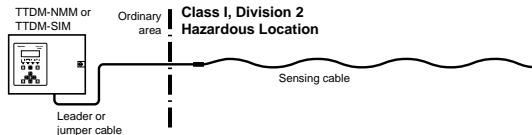
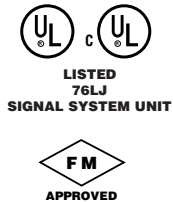
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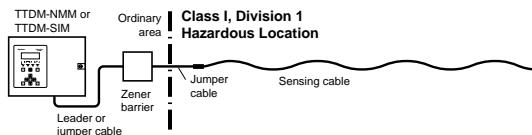
Temperature	Storage	0°F to 140°F (-18°C to 60°C)
	Operating	32°F to 122°F (0°C to 50°C)
Humidity		5% to 95% noncondensing
Audible alarm	Piezo electric	
Power consumption	<6 VA (5 W)	
Interfaces	Relays	Number: 3 (service required, leak, fault) Type: DPDT Rating: 5 A at 250 Vac/24 Vdc
	TraceTek Network Port	RS-485 (2-wire)
	External Serial Port	RS-232 (3- or 5-wire connection) or RS-485 (2-wire connection)

Approvals and certifications pending

The TTDM-NMM unit is approved for use in ordinary areas. The module must be located in an ordinary area, but may monitor intrinsically safe TraceTek sensing cables located in hazardous locations, as shown below.



TraceTek sensing cable in Class I, Division 2, Groups A, B, C, D Hazardous Locations (Zone 2 in Europe)



If protected by an agency-approved zener barrier, TraceTek sensing cable in Class I, Division 1, Groups A, B, C, D Hazardous Locations (Zone 0 or Zone 1 in Europe). Contact Raychem to select proper zener barrier.

The TTDM-NMM enclosure is NEMA 12, IP54.

Electromagnetic compatibility



Compliant with standards for immunity	EN50082-1 (light industrial)
Compliant with standards for emissions	EN50081-1 (residential/commercial) EN55022 and FCC Part 15, Class B
	<i>Certifications pending.</i>



The TraceTek products group is a part of Raychem's Commercial and Industrial Infrastructure Division, which is ISO 9001 certified worldwide.

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