

## TTDM

### TraceTek Leak-Detection and Location Module

#### Easy setup and simple operation

As with all TraceTek modules, no calibration or complicated setup procedure is required. Separate LEDs give clear indication of system status. The TTDM unit monitors up to 5000 feet (1500 m) of TraceTek sensing cables.

When liquid is detected, the TTDM unit sounds an alarm and displays the location of the leak. The unit then continues to monitor 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.

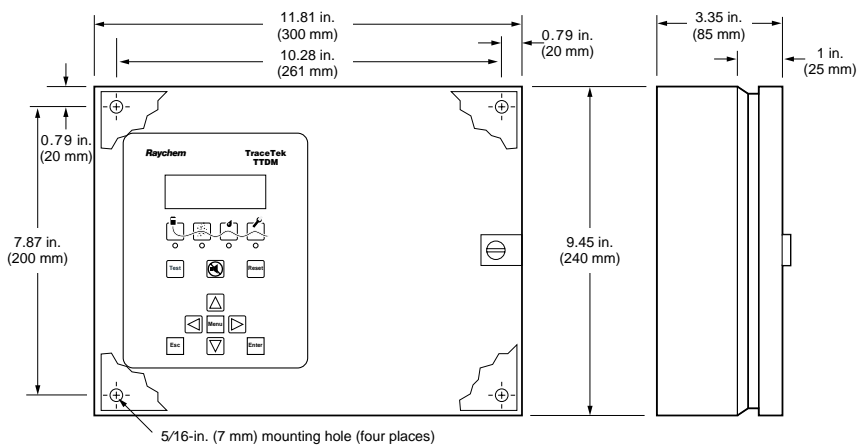
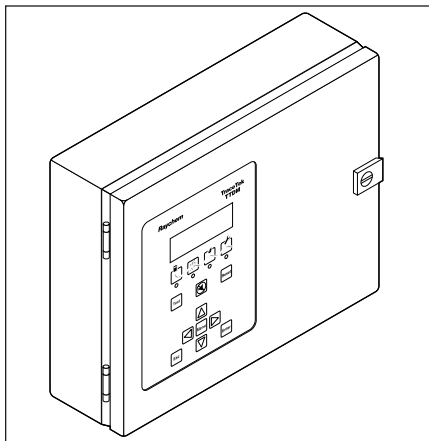
#### Full featured

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

#### Versatile design

The TTDM unit incorporates the following features:

- Settings for measuring feet, meters, or zones
- Three different interface types for connection to building management and process control systems:
  - Three alarm status relays
  - 4–20 mA current transmitter
  - RS-232/RS-485 serial port
- Three voltage ranges (115 Vac, 230 Vac, 24 Vac/Vdc)



#### General usage features

Sensing cable compatibility	All TT1000, TT3000, and TT5000 series sensing cables All TT100, TT300, and TT500 series long-line sensing cables
Maximum length of sensing cable	5000 ft (1500 m)
Maximum number of zones	100
Precision	±0.1% of connected sensing cable length
Units	Feet, meters, zones (selectable)
Language (selectable)	English, French, German, Spanish
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

#### Temperature

#### Humidity

#### Audible alarm

#### Power consumption

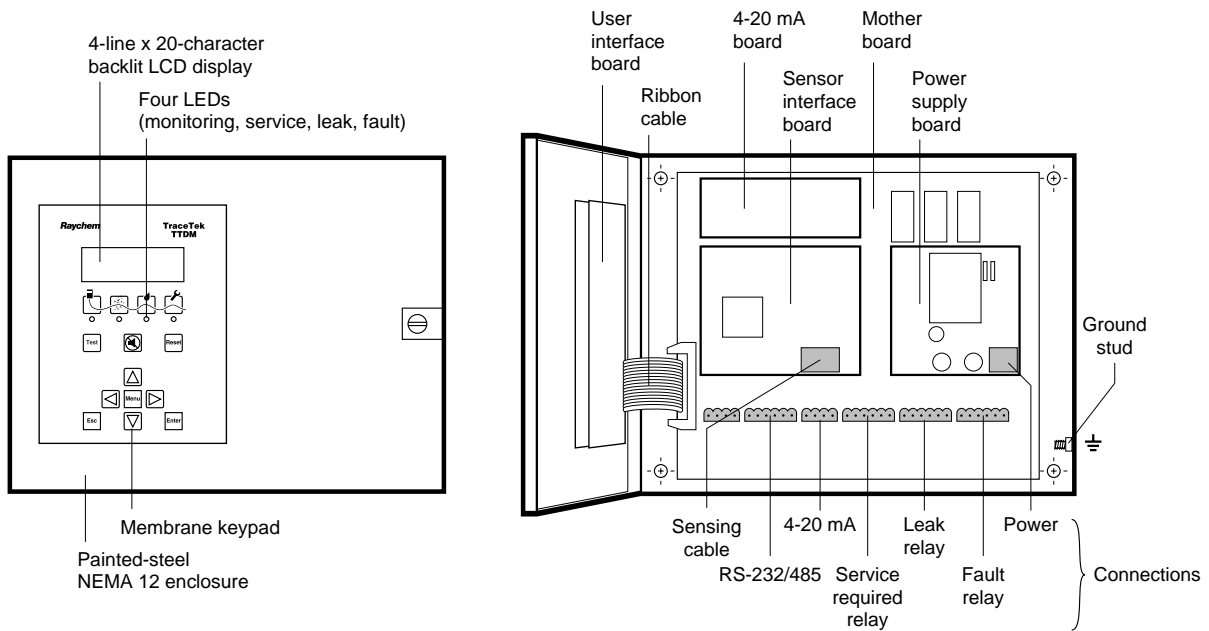
#### Ordering Information

Piezoelectric	
6 VA (5 W) for TTDM-1 and TTDM-2	12VA (10 W) for TTDM-24
<b>Catalog Number</b>	<b>Description</b>
TTDM-24	24 Vac +5%, –35%; 24 Vdc ±20%
TTDM-1	115 V +15%, –20%; 50/60 Hz
TTDM-2	230 V ±10%; 50/60 Hz
TTDM-PS24	24 Vac/dc power supply
TTDM-PS1	115 Vac power supply
TTDM-PS2	230 Vac power supply
TTDM-MB	Motherboard
TTDM-SI	Sensor interface
TTDM-UI	User interface
TTDM-4/20	4–20 mA interface
TTDM-RC1	Ribbon cable

Supply voltage

Spares

# TTDM Leak-Detection and Location Module



## Interfaces

### Relays

Number: 3 (service required, leak, fault)

Type: DPDT

Rating: 5 A at 250 Vac/24 Vdc

### 4-20 mA

Type: 4-wire connection

Accuracy:  $\pm 0.02$  mA

### Serial Port

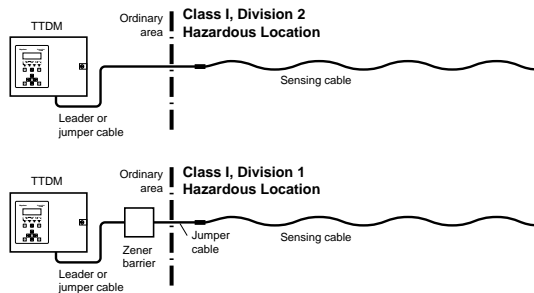
RS-232 (3- or 5-wire connection) or

RS-485 (2-wire connection)

## Approvals and Certifications



The TTDM 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

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 enclosure is NEMA 12, IP54.

## Radio frequency



### Immunity

IEC-801-2, 3, 4, 5 compliant

### Emissions

FCC, Part 15, Class B

EN55011-2 Class B



The TraceTek products group is a part of Raychem Chemelex Division. Chemelex Division is ISO 9001 certified.

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