

Commissioning Record TraceTek Leak Detection System TTDM Alarm and Locating Module

Company Owning or
Operating Facility _____

Authorized TraceTek
service representative _____

Building/unit _____

Address _____

Street _____

Street _____

City _____ State _____ Zip _____

City _____ State _____ Zip _____

Contact _____ Telephone _____

Contact _____ Telephone _____

A. Application

- Beneath raised floor
- Double contained piping
- Double contained tanks
- Overhead piping
- Sumps
- Trench
- Other: _____

TraceTek sensing cables connected:

Type	Approx. Length
<input type="checkbox"/> TT1000 water sensing	_____
<input type="checkbox"/> TT3000 for conductive liquids	_____
<input type="checkbox"/> TT5000 fuel sensing	_____
<input type="checkbox"/> TT5001 solvent sensing	_____
<input type="checkbox"/> Other: _____	_____
<input type="checkbox"/> Other: _____	_____

B. Set-up

- Visual Inspection
- Seating of circuit boards

Not Applicable	Wired	Verified	Wiring (check all that are applicable)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ground/earth
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power supply wiring
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sensing cable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Zener barrier
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fault relay
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leak relay
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Service relay
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4–20 mA
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RS-232/485

C. Test after energizing

Remove sensing cable terminal block.
Close enclosure and supply power to the unit.

- Green LED illuminated at first
- Passes self-tests
- Fault alarm (green LED extinguishes)
 - Fault LED illuminated
 - LCD display "Cable break"
 - Audible alarm

D. General settings

After silencing alarm, press menu and select View/edit settings.

- Change language (if applicable)
 - Eng D F Esp J
- Affix front panel label in chosen language
- Change time/date to local time
- Change units (if applicable)
 - ft m z

E. Test with TTDM-CTP (commissioning test plug)

Insert TTDM-CTP into sensing cable socket.
Close enclosure and supply power to the unit.

- Green LED illuminates
- Passes self-tests
- Leak alarm (after confirmation delay)
 - Leak LED illuminated
 - LCD display "Leak _____" 538 ±11 ft
164 ±4 m
11 z
 - Audible alarm

After silencing alarm, press menu.
Select "System status" and scroll down.

- Test length: _____ 1077 ±22 ft
328 ±6 m
21 z
- R S-to-S 2KΩ

F. Self Tests with UI Software

- UI Test
- Memory Tests
- SI Test
- Audio Tests
- Display Test
- Keypad

Alert response personnel before testing relays or other interfaces (if connected).

- Relay Test
- 4–20 mA Test (must be connected to external equipment)
- Ext Comm Loop Back Test (serial port) (requires transmit/receive jumper)

G. Leak and Port Settings

Leak	Default	Other
Re-Alarm distance	<input type="checkbox"/> 5 ft	_____
Re-Alarm interval	<input type="checkbox"/> Never <input type="checkbox"/> 12 hr	<input type="checkbox"/> 8 hr <input type="checkbox"/> 24 hr
Auto-Reset	<input type="checkbox"/> Off	<input type="checkbox"/> On
Audible alarm	<input type="checkbox"/> On	<input type="checkbox"/> Off
Sensitivity	<input type="checkbox"/> Normal	_____
Barrier resistance	<input type="checkbox"/> 0 Ω	_____
Port		
Baud	<input type="checkbox"/> 9600	_____

H. Sensing Cable and System Test

Connect sensing cable.

- Green LED illuminates
- No other LEDs illuminate; no fault, leak or service alarms

Press menu, select "System Status", and record:

- Test Length _____
- Current _____ (< 10 μA for Pass)
- R S-to-S _____ KΩ
- R RG loop _____ Ω
- R YB loop _____ Ω
- SI Version _____
- UI Version _____

I. Acceptance Test

Perform test in presence of owner's representative. (For TT5000 series, temporarily connect extra cable at end).

When sensing cable at end of circuit is immersed in liquid

- System detects and locates simulated leak

Provide draft of graphic map

- Map accepted

J. Operation and Maintenance Training

This documentation was provided and reviewed with the end user:

General installation instructions:

- General instructions for commercial buildings (H55522)
- General instructions for environmental applications (H55523)

Sensing cable installation instructions:

- TT1000 modular sensing cables (H55555)
- TT3000 and TT5000 series modular sensing cables (H55357)
- TT3000 and TT5000 bulk sensing cables with procedures for DC piping (H55553)

TTDM documentation:

- TTDM installation instructions (H55471)
- TTDM Operation and Maintenance Manual (H55472)

To obtain copies of installation instructions from our Fax-on-Demand system, dial 1-800-329-4494 (415-361-2168 for international access). A voice prompt will lead you through the process.

Signatures

Test performed by: Name _____ Signature _____ Date _____

Client acceptance: Name _____ Signature _____ Date _____