TraceTek®

Commissioning Record
TraceTek Leak Detection System
TTDM-128 Alarm & Locating Module

Company Owning or Operating Facility _____	Authorized TraceTek service company _____
Building/unit _____	Address _____
Site Address _____	_____
_____	_____
_____	_____
Contact person _____	Contact person _____
Telephone _____ email _____	Telephone _____ email _____

1. System Configuration

- ☐ Single channel stand-alone system
- ☐ Single channel with remote repeater
- ☐ Single TTDM with TTSIM network
- ☐ Multiple TTDM network system
- ☐ Other: _____

2. TTDM Installation Inspection

- ☐ Visual Inspection
- ☐ Seating of circuit boards

Wiring (check all that are applicable)

Not Applicable	Wired	Verified	
	☐	☐	Ground/earth
	☐	☐	Power supply wiring
☐	☐	☐	Sensing cable
☐	☐	☐	Zener barrier
☐	☐	☐	Fault relay
☐	☐	☐	Leak relay
☐	☐	☐	Service relay
☐	☐	☐	4-20 mA
☐	☐	☐	Host port (RS-232 / RS-485)
☐	☐	☐	RS-485 SIM network port
☐	☐	☐	TT-NRM (Quantity: _____)
☐	☐	☐	Internal SIM
☐	☐	☐	External TTSIM (Quantity: _____)

3. TTDM Initial Power up Test

Close enclosure and supply power to the unit.

- ☐ Green LED illuminated at first
- ☐ Passes self-tests
- ☐ Finds all connected SIM, TTSIM, and TT-NRM modules

4. General settings

- ☐ Language selected: _____
- ☐ Affix front panel label in chosen language
- ☐ Change time/date to local time

5. 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 (if installed and connected)
- ☐ Host port comm. Loop back test (requires transmit/receive jumper)

6. Leak and Port Settings

Leak	Default	Other
Re-alarm interval	☐ Never	☐ _____
Auto-Reset	☐ Off	☐ On
Audible Alarm	☐ On	☐ Off
Alarm re-flash	☐ Off	☐ On
Alarm Reset	☐ Single	☐ All

Host port		
Baud	☐ 9600	☐ _____
485 Address	☐ 1	☐ _____
Mode switch	☐ RS 232	☐ RS 485
TTDM	☐ Master	☐ Slave

Complete a copy of this page for each SIM or TTSIM installed in the system.

7. Application

- ☐ Beneath raised floor
- ☐ Double contained piping
- ☐ Double contained tanks
- ☐ Buried pipeline
- ☐ Sumps
- ☐ Trench
- ☐ Overhead piping
- ☐ AST
- ☐ Other: _____

TraceTek Sensors connected:

	Type	Approx. length
☐	TT1000 water sensing	_____
☐	TT3000 conductive liquids	_____
☐	TT5000 fuel sensing	_____
☐	TT5001 solvent sensing	_____
☐	Other: _____	_____
☐	Other: _____	_____

8. Setup

- ☐ Visual Inspection

Wiring (check all that are applicable)

Columns: Not Applicable / Wired / Verified

Not Applicable	Wired	Verified	
	☐	☐	Ground/earth
	☐	☐	Power supply wiring
☐	☐	☐	Sensing cable
☐	☐	☐	Zener barrier
☐	☐	☐	Internal SIM
☐	☐	☐	External TTSIM (Quantity: _____)
☐	☐	☐	RS-485 connection

9. Sensor and System Settings

At the TTDM, select this channel then press the down arrow and record:

- ☐ SIM Address _____
- ☐ ID _____
- ☐ Status _____
- ☐ Test length _____ ft / m / z
- ☐ Sense Current _____ µA
- ☐ Service alert >= _____ µA
- ☐ Sense Resistance _____ KΩ
- ☐ Leak alarm <= _____ KΩ
- ☐ RG Resistance _____ Ω
- ☐ YB Resistance _____ Ω
- ☐ SI Version _____
- ☐ SI Comm _____ %

10. Relay configuration

Complete this section for TTSIM-1A or TTSIM-2 modules, or when TT-NRMs are installed.

TT-NRM Regions and Relays:

Trouble relay _____

Service relay _____

#	Start	End	ID	Region Relay
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

SIM relay:

Alarm mode	☐ Leak	☐ Leak/Break
Alarm state	☐ On	☐ Off
Alarm reset	☐ Auto	☐ Manual ☐ Safe

11. Sensor Mapping

Record TTDM-128 Leak location reading for simulated leaks created at key points on the system:

Location	**TTDM leak location**
_____	_____ Ft / m
_____	_____ Ft / m
_____	_____ Ft / m
_____	_____ Ft / m
_____	_____ Ft / m
_____	_____ Ft / m
_____	_____ Ft / m
_____	_____ Ft / m
_____	_____ Ft / m

12. Acceptance Test

When sensor is subjected to a simulated leak
- ☐ System detects and locates simulated leak

Acceptance test was performed in presence of owner's representative:

☐ Yes   ☐ No

13. Operation and Maintenance Training

This documentation was provided and reviewed with the end user:

Project specific documents:
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

General installation instructions:
- ☐ General instructions for commercial buildings
- ☐ General instructions for environmental applications
- ☐ _____
- ☐ _____
- ☐ _____

Sensor installation instructions:
- ☐ TT1000 modular sensing cables
- ☐ TT3000 and TT5000 series modular sensing cables
- ☐ TT3000 and TT5000 series bulk sensing cables
- ☐ _____
- ☐ _____

TTDM-128 Documentation:
- ☐ TTDM-128 Installation Instructions
- ☐ TTDM-128 User Manual

Signatures

Test performed by: Name_____ Signature_____ Date_____

Client acceptance: Name_____ Signature_____ Date_____

Copies to: 1) Client   2) TraceTek service representative   3) Tyco Thermal Controls
300 Constitution Dr., R51/1A
Menlo Park, CA 94025-1164
USA