tyco
Flow Control

Tyco Thermal Controls

Company Owning or
Operating Facility _____

Building/unit _____

Site Address _____

_____

_____

Contact person _____

Telephone _____ email _____

Authorized TraceTek
service company _____

Address _____

_____

_____

Contact person _____

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

Not Applicable	Wired	Verified	**Wiring** (check all that are applicable)
	☐	☐	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

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

- ☐ Language selected: _____
- ☐ Affix front panel label in chosen language
- ☐ Change time/date to local time
- ☐ Set units
  - ☐ ft   ☐ m   ☐ zones

5. Self Tests with UI Software

- ☐ UI Test   ☐ Audio Tests
- ☐ Memory Tests   ☐ Display Test
- ☐ SI 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)

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:

#	Start	End	ID	Region Relay	Trouble Relay	Service 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
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Menlo Park, CA 94025-1164
USA