PENTAIR

TRACETEK LEAK DETECTION SYSTEM

COMMISSIONING RECORD

Company Owning or Operating Facility

Building/unit

Site Address

Contact Person

Telephone Email

Authorized TraceTek service representative

Address

Street

Contact Person

Telephone Email

1. GENERAL SYSTEM CONFIGURATION NOTES

Main Control Panel:

TT-TS12 model # serial #

TTDM-128 serial #

other_____

Sub Control Panel:

TTDM-128 serial #

Quantity of External SIM/SIM type:

TTSIM-1 _____ TTSIM-1A _____ TTSIM-2 _____ Power _____

List other components (for example TT-NRM):

_____

List Sensing cable/components:

_____

_____

Application Type:

- ❑ Beneath raised floor
- ❑ Sump
- ❑ Trench
- ❑ Double contained piping
- ❑ Buried pipeline
- ❑ Around/Under tank
- ❑ Overhead piping
- ❑ Other:

2. TTDM-128 INSTALLATION INSPECTION

❑ Visual Inspection ❑ Seating of circuit Boards

Wiring(Check All Applicable)	N/A	Wired	Verified
Ground/earth	❑	❑	❑
Power supply wiring	❑	❑	❑
Sensing cable	❑	❑	❑
Zener barrier	❑	❑	❑
Fault relay	❑	❑	❑
Leak relay	❑	❑	❑
Service relay	❑	❑	❑
4-20 mA	❑	❑	❑
RS-232/485 Host Port	❑	❑	❑
TT-NRM (Quantity:_____)	❑	❑	❑
Internal SIM	❑	❑	❑
RS-485 SIM Network port	❑	❑	❑

3. TTDM-128 INITIAL POWER UP TEST

Close enclosure and supply power to the unit.

- ❑ Green LED illuminated at first
- ❑ Passes self-tests
- ❑ Finds all connected Network Modules, (TTSIM, TT-NRM, etc)

4. TTDM-128 GENERAL 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
- ❑ Kepad

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

7. SIM MODULE SETTINGS

After fully assembling the leak detection system including sensing cables/components, record SIM parameter values on Table 1 (use extra copies as necessary) for all commissioned SIM's.

8. 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

9. SYSTEM MAP FOR ENTIRE LEAK DETECTION SYSTEM

Record leak location readings for simulated leaks created at key points on the circuit for each relevant SIM address number.

Record in Table 2, which also can be used to document configuration. Use extra copies as necessary.

This data can be used to prepare a graphical System Map, which is very desirable for customer utilization.

10. OPERATION AND MAINTENANCE TESTING

This documentation was provided and reviewed with the end user:

Project specific documents:

❑ _____

❑ _____

❑ _____

❑ _____

❑ _____

Installation instructions:

❑ _____

❑ _____

Sensor installation instructions:

❑ _____

❑ _____

11. 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

SIGNATURES

Test performed by: Name_____Signature_____Date_____

Client acceptance: Name_____Signature_____Date_____

TABLE 1 - SIM MODULE SETTINGS

SIM Type _____________
SIM Address _____________
ID ____
Serial Number
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 __________ %
Ground Fault Check __________

SIM Type _____________
SIM Address _____________
ID ____
Serial Number
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 __________ %
Ground Fault Check __________

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Service alert >= __________ µA
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Leak alarm <= __________ KΩ
RG Resistance __________ Ω
YB Resistance __________ Ω
SI Version __________
SI Comm __________ %
Ground Fault Check __________

TABLE 2 - LEAK DETECTION SYSTEM MAP INFORMATION

Master Control Panel _____
Sub Control Panel _____
_____
_____
_____

SIM Address No.	Circuit Name/ID	Leak Sensor Type	Simulated Leak Location Description	Reported Leak Distance

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