



RAYCHEM
TraceTek

Leak Detection Systems

Commercial Buildings Installation Instructions

Checklist of Installation Steps

Steps	Check List
1 Store sensing cables properly	1 <input type="checkbox"/>
2 Prepare for the installation and schedule it at the proper time	2 <input type="checkbox"/>
3 Install and test the TraceTek alarm module	3 <input type="checkbox"/>
4 Verify that major construction is complete	4 <input type="checkbox"/>
5 Prepare the area where the sensing cable will be located	5 <input type="checkbox"/>
6 Observe proper precautions when handling sensing cables	6 <input type="checkbox"/>
7 Install sensing cable in accordance with instructions	7 <input type="checkbox"/>
8 Test sensing cable after installation	8 <input type="checkbox"/>
9 Complete the leak detection system and activate it as soon as possible	9 <input type="checkbox"/>
10 Verify that the system is operational	10 <input type="checkbox"/>
11 Prepare as-builts, and have TraceTek system tested, mapped, and commissioned	11 <input type="checkbox"/>
12 Train owner/operator	12 <input type="checkbox"/>

Installation Steps

For details, these general instructions refer to other nVent literature which is identified by an H-number. Consult nVent at (650) 216-1526.

STEP:

FOR DETAILS REFER TO:

1. Store sensing cables properly.

Store the sensing cable in the original container in a clean, dry area prior to installation.

- nVent RAYCHEM TraceTek TT1000 Modular Sensing Cable Installation Instructions (H55555)

2. Prepare for the installation and schedule it at the proper time.

- Confirm there is a plan for the leak detection system layout, and a complete bill of materials.
- Ensure that all materials are available (including sensing cable lengths, end terminations, branching connectors, jumper cables, hold-down clips, and other accessories).
- Plan installation of the sensing cable only after major construction (which could damage or contaminate the cable) is complete.
- If possible, plan to install the alarm module first so it can be used to monitor sensing cable immediately after cable installation.
- Schedule training (by a qualified organization) for those who will install the TraceTek system.

- Water Sensing Systems Selection Guide (H53874)
- nVent RAYCHEM TraceTek Installation Training Record (H55554)

3. Install and test the TraceTek alarm module.

Install and test alarm module in accordance with installation instructions shipped with the unit.

- Alarm Module Installation Instructions (instructions are specific to the module; follow the instructions that come with it)

4. Verify that major construction is complete.

- Check that construction that could damage or contaminate the sensing cable has been completed.

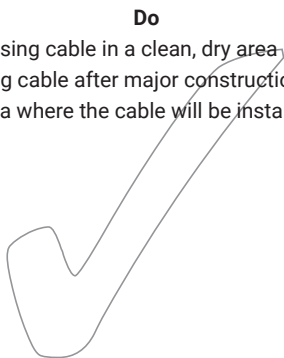
5. Prepare the area where the sensing cable will be located.

- Clean the area where the cable will be installed, to remove debris and sources of contamination.
- For subfloor, sumps, and similar applications, install TraceTek hold-down clips, positioning them so sensing cable will provide desired leak detection coverage.

- TT1000 Modular Sensing Cable Installation Instructions (H55555)

6. Observe proper precautions when handling sensing cables.

- Store the sensing cable in a clean, dry area prior to installation.
- Install sensing cable after major construction is complete.
- Clean the area where the cable will be installed.



- Don't**
- Drag the sensing cable through contaminants (such as pipe dope, PVC cement, acetone or other solvents, oil, or dirt).
 - Use damaged or contaminated sensing cable.
 - Solder or weld near the cable without protecting it from heat, flux, and splatter.
 - Drop tools or sharp or heavy objects onto the cable.
 - Pull the sensing cable with excessive force (more than 50 pounds/20 kg).
 - Use adhesive tapes or unapproved clamping devices to permanently secure the sensing cable.
 - Allow cable connectors to become wet, dirty, or contaminated.

STEP:**FOR DETAILS REFER TO:**

7. Install sensing cable in accordance with instructions for your application.

The proper installation procedure depends on the application. Installation instructions for TraceTek TT1000 modular sensing cable cover common applications in commercial buildings (such as computer room subfloors and sumps). For different types of applications (such as double-contained piping), different procedures and/or TraceTek products are required. If there is any doubt, consult your TraceTek representative.

- TT1000 Modular Sensing Cable Installation Instructions (H55555)

8. Test the sensing cable before and after installation.

To ensure that each length of sensing cable is intact and free of contamination, follow test procedures detailed in the installation instructions included with your sensing cable.

- TT1000 Modular Sensing Cable Installation Instructions (H55555)
- Operating Instructions for Portable Test Box (H55524)

9. Complete the leak detection system and activate it as soon as possible.

- Install other TraceTek circuit components, such as TraceTek modular branching connectors (nVent RAYCHEM TraceTek TT-MBC-PC), as called for in the system layout; complete the sensing circuit.
- Connect the sensing circuit to the alarm module and activate the system as soon as is practical. Use the module to monitor the cable for events during the final stages of construction. Identify and correct problems as they are detected.

- Component Installation Instructions (instructions are specific to the component; follow the instructions that come with it)

10. Verify the system is operational.

- Verify that the system is fully operational and ready for use; the TraceTek Precommissioning Record provides a useful checklist.

- Precommissioning Record (H55550)

11. Prepare as-builts and have the TraceTek system tested, mapped, and commissioned.

- Gather and record as-built information while the system is still accessible.
- Have a qualified organization test, commission, and (for locating systems) map the TraceTek leak detection system.

- Commissioning Record for the TraceTek alarm module (specific to the type of alarm module)

12. Train the owner/operator

- Identify the persons or groups in the owner/operator organization who will be responsible for the leak detection system. Have them trained in the operation and maintenance of the system.

- Operating Manuals (specific to the type of alarm module)

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