

Leak Detection and Locating System

The danger of environmental contamination and the potential repair costs of an undetected fuel leak along an airport kerosene pipeline can be astronomical.

To reduce this risk of environmental contamination, TraceTek monitors hundreds to thousands of meters of single wall buried pipelines and provides the exact location of any developing small leaks.



TraceTek Sensor cables are installed parallel to the pipeline by pulling through the permeable blue conduit shown.



TraceTek Leak Detection and Locating System in a NATO-Airbase close to Prague in Czech Republic.

An interface to the monitoring control center or BMS receives the notification and displays the distance to the leak.

The exact location allows quick reaction whilst the leak is still small, helping to prevent larger spills.

Under streets or other barriers it is installed in a coated pipe.

Single Wall, Buried Pipelines on Airport

Components

Amount	Catalog Number	Description
1 pc	TTDM-128	Alarm- and Locating Module
1 pc	TTSIM-1	Sensor Interface Module
ca. 500 m	TT5000	Fuel Sensing Cable
ca. 60 m	TT-JC-BLK-HS	Jumper Cable
1 pc	TT-MBC-MC-BLK	Modular Branch Connector
2 pcs	TT-MET-MC	Modular End terminator
600 m	TT-PR	Pull Rope
500 m	Slit Conduit with Accessories	
6 pcs	Connecting Box	



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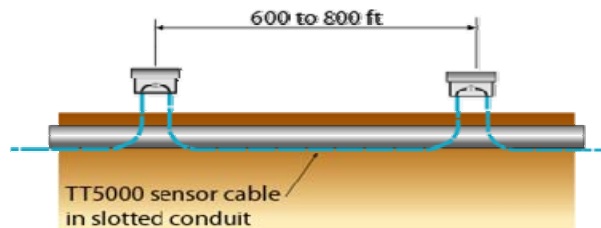
TraceTek TT5000 Sensing Cable installed inside slotted PVC conduit along side a single wall buried pipeline can detect a small fuel leak and identify the location with pinpoint accuracy. Traces of any fuel leakage are drawn into the conduit by capillary action and contact the sensing cable for detection and location of the leak.



Blue conduit with sensor cable installed in a coated pipe under a street.



Typical design of sensor cable and access shaft with connecting box



Approvals



Sensing cable may be used in Class I, Division 2, Groups A, B, C, D Hazardous Locations. If wiring from module meets requirements for intrinsic safety, sensing cable may be used in Class I, Division 1, Groups A, B, C, and D Hazardous Locations (Zone 0 or Zone 1 in Europe).



The TraceTek products group is a part of Tyco Thermal Controls. Tyco Thermal Controls is ISO 9001 Certified.

Third Party Test and Evaluation

Carnegie Mellon Research Institute

"Test Procedures for Third Party Evaluation of Leak Detection Methods: Cable Sensor Liquid Contact Leak Detection Systems"

Ken Wilcox Associates, Inc

"Evaluation of the TraceTek TT5000 Product Sensitive Cable For use as a Leak Detection System For Buried Pipelines"



State of Florida Department of Environmental Protection Approval of the TraceTek TT5000 Leak Detection System for Single-Walled Underground Bulk Product Piping File No. EQ-551

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