



Leak Detection and Locating Systems

Most modern airports depend on miles of direct buried fuel piping loops to distribute millions of gallons of fuel to airliners daily from the terminal aprons. An undetected fuel leak along the hydrant fuel system can be devastating to airport operations and the surrounding environment.

TraceTek Leak Detection and Locating Systems can monitor miles of single wall buried pipelines for fuel leaks, provide a precise location of a small developing leak, close valves before it becomes catastrophic, and interface with a pipeline monitoring control center for notification.



Hydrant fuel dispenser connected to the fuelling point under an aircraft's wing.



Schedule 80 PVC slotted conduit installed along side a hydrant fuel distribution pipeline below an airport parking apron.



Inspection of the TT5000 Sensing Cable can easily be performed from the access ports at any section of the 20 km TraceTek Leak Detection System installed at the Madrid Airport in Spain.

TraceTek TT5000 Sensing Cable installed inside slotted PVC conduit along side a single wall buried hydrant 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.

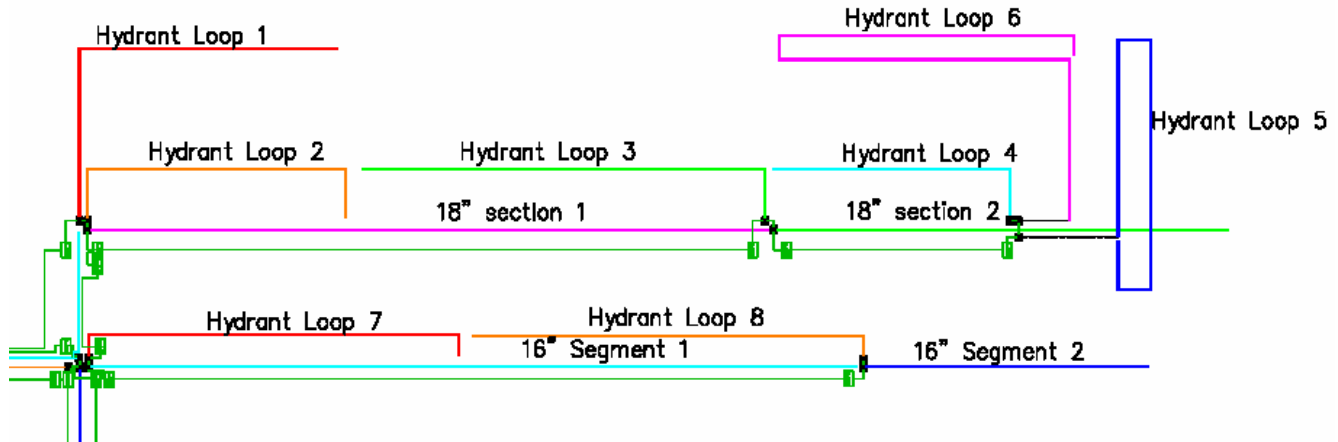
Application Components

Catalog Number	Description
TTDM-128	Alarm and Locating Module
TTSIM-1	Sensor Interface Module
TT5000-HS	Fuel Sensing Cable
TT-JC-BLK-HS	Jumper Cable
TT-MBC-MC-BLK	Modular Branch Connector
TT-MET-MC	Modular End Termination

Airport Hydrant Fuel Systems



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Sample configuration of a direct buried hydrant fueling system

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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