

# TRACETEK LIQUID HYDROCARBON & WATER LEAK DETECTION SYSTEMS



FM CLASS NUMBER 7745 APPROVED



## nVent RAYCHEM TraceTek Liquid Hydrocarbons and Water Leak Detection Systems are approved per FM Standard 7745

Our systems and products:

- Meet all requirements of FM class number 7745, most importantly the production of an alarm signal within 30 seconds of leak detection
- Have been on the market and continuously improved since the 1980's and have become the gold standard for comprehensive and preventative leak detection solutions
- Are trusted, reliable, durable and a critical part of safeguarding property and people while minimizing environmental damage
- Improves safety and aids in the prevention of property damage and business disruption
- Designed and manufactured with high performance polymers for long-term service



# TraceTek Liquid Hydrocarbon Leak Detection

## TRACETEK LIQUID HYDROCARBONS LEAK DETECTION SYSTEM OFFERS:

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- Sensor cables and probes that directly detect and pinpoint the source of diesel leaks to help you take decisive action before the spill can create damage.
- Configuration options that automatically shut off pumps or valves where appropriate.
- Digital communications such as local, networked remote alarms and diagnostics including building management systems, email, or SMS.
- Modular and scalable units so that simple or complex systems can be configured for current needs and allow for future expansion.

## TYPICAL INDOOR LIQUID HYDROCARBONS FUEL MONITORING APPLICATIONS:

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- Beneath day tanks
- Around pump pads
- Below valves or other flanged fittings
- Near threaded indoor pipe couplings
- At flexible hose couplings to engine injector pumps

## TRACETEK DIESEL LEAK DETECTION SYSTEM COMPONENTS:

### TTDM-128 ALARM MODULE

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- Multiple event tracking capability for up to 127 independent sensor circuits
- Complete remote operation and monitoring through Modbus communications
- Directly monitors up to 1500 m (5000 ft) of sensor cable and/or three TT-FFS probes

### TTSIM-1A OR TTSIM-2 SENSOR INTERFACE MODULE

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- Monitors up to 150 m (500 ft) of TraceTek sensing cable and up to three TT-FF probes per circuit
- Can communicate to a monitoring system such as a TraceTek TTDM-128 or directly to a PLC or other host system using standard protocols
- Can be standalone leak detection alarm unit, or in networks with other TraceTek modules
- Available in 12 Vdc, 24 Vdc, 24 Vac, 120 Vac, and 230 Vac versions

### TT-FFS FAST FUEL SENSOR

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- Fast response (within seconds) to small amount of fuel
- Resets for multiple uses
- Wet or dry locations (ignores water)

### TT5000 FUEL SENSING CABLE\*

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- Detects the presence of liquid hydrocarbon fuels at any point along its length
- Does not react to the presence of water
- Designed for a variety of applications, including tanks, trenches and piping
- Locates the source of any detected leak to +/- 1 m (3 ft)

\*TT5000 does not meet FM 7745 requirement of producing a 30 second alarm, but can still be included in a diesel leak detection system

# TraceTek Water Leak Detection

## TRACETEK WATER LEAK DETECTION SYSTEM OFFERS:

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- Cables and probes that directly detect and accurately pinpoint the source of the leak without the risk of digital communications and power running through the sensor cable out on the data center floor.
- Digital communications such as local, networked remote alarms and diagnostics including building management systems, email, or SMS that gives the ability to track many leaks at once.
- Configuration options that automatically shut off pumps or valves where appropriate.
- Modular assembly means systems can be configured for current needs and allow for future expansion.

## TYPICAL INDOOR WATER MONITORING APPLICATIONS:

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- Raised floor computer facility
- Communications and server equipment rooms
- ISP/co-location facilities
- Museums and historic buildings
- Fiber optic switch sites
- Libraries and aquariums
- Control rooms
- Raised floor office areas
- Trading rooms
- Utility riser columns
- Archival storage
- Elevator pits
- Executive offices

## TRACETEK WATER LEAK DETECTION SYSTEM COMPONENTS:

### TT-TS12

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- Graphical User Interface
- Provides Leak Alarm, Status location information and dynamic leak mapping
- Manages and displays data from network of up to 250 SIMS

### TTSIM-1A

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- Monitors up to 150 m (500 ft) of TraceTek sensing cable and up to three TT-FF probes per circuit
- Can communicate to a monitoring system such as a TraceTek TTDM-128 or directly to a PLC or other host system using standard protocols
- Can be standalone leak detection alarm unit, or in networks with other TraceTek modules
- Available in 12 Vdc, 24 Vdc, 24 Vac, 120 Vac, and 230 Vac versions

### TT1000

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- TT1000 cable core is built with tough engineering plastics suitable to take the load and stress from being on the bottom layer of an under floor cable stack
- Made with conductive polymer technology, this rugged cable construction is resistant to corrosion and abrasion, and has no exposed metal parts
- Quick drying
- Detects the presence of water anywhere along its length

## TRACETEK WATER LEAK DETECTION SYSTEM COMPONENTS CONTINUED:

### TT1000 -OHP



- TT1000-OHP is a design tailored for overhead pipe, drip trays and dirty areas
- The unique polyester over braid layer provides a wicking action that assures the first drops of water to hit the sensor cable are absorbed and wicked along the cable until an alarm signal is generated and the leak located
- The rope layer also provides additional insulation where sharp metal edges could be a problem and works well to protect the sensor electrodes in dirty or dusty areas

### TT3000



- Used to detect aqueous chemicals – standard chemical resistant metal connectors
- The conductive-polymer technology and fluoropolymer construction make TT3000 sensing cable mechanically strong and chemically resistant
- Small, lightweight, and flexible, allowing easy installation

### TT-FLAT PROBE



- A different style of water detection point probe
- It can be installed vertically or flat
- Much less sensitive to damp and condensation as compared to sensor cable

### TT-MINI-PROBE



- Built using chemically resistant plastic and stainless steel materials to withstand exposure to a wide range of harsh chemicals
- A cost effective solution for low point leak detection
- Can be interconnected with jumper cable and branching connectors to other TT-MINI-PROBE or TraceTek sensing cable segments
- Detects water, acid, caustic or any conductive fluid that makes contact
- Use it in sumps, inspection tubes or other confined spaces

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