



- Innovations
- Solutions
- Support



Not Just Products... Customer Focused Solutions

SAFE
FIRE DETECTION, INC.

BEST SUPPORT ... IN THE *INDUSTRY*

Support

SAFE Fire Detection, Inc. is committed to providing the best customer support in the industry. This provides our clients with the satisfaction of knowing that their valuable assets and business operation are our greatest concerns. This trust has been earned through 35 years of proven product reliability, dedication, and by providing unparalleled detection, helping safeguard facilities around the world.

Solutions INNOVATIONS

SAFE Fire Detection, Inc. is the innovator in providing new state of the art detection products helping protect companies around the world from downtime, data loss, and business interruption. SAFE Fire Detection's products are revolutionizing the air sampling, linear heat, and water leak detection industries. SAFE Fire Detection combines extensive industry knowledge with solid technical expertise to help our clients safeguard their assets.





FIVE PRODUCT SOLUTIONS...

PRO
Series

Aspirating Fire Detection

PRO
Locator

Portable Air Sampling Fire Detection

THERMO
LHD Cable

Linear Heat Detection

PRO
H₂O

Water Leak Detection

THERMO
LNG Cable

Liquid Natural Gas Detection

...ONE COMPANY



EARLY WARNING

PRO
SeriesTM

UL
UL
C US
FM
APPROVED
CSFM
MEA



Early Warning Air Sampling Fire Detection



ASPIRATING DETECTION



- Prevent
- Protect
- Preserve

When Downtime or Data Loss is Not an Option

Prevent

- Prevent business interruption, downtime, and loss of revenue



Protect

- Protect business investment and irreplaceable data



Preserve

- Preserve irreplaceable artifacts and clean environment integrity



Early Warning



PRO Series™



Aspirating Fire Detection

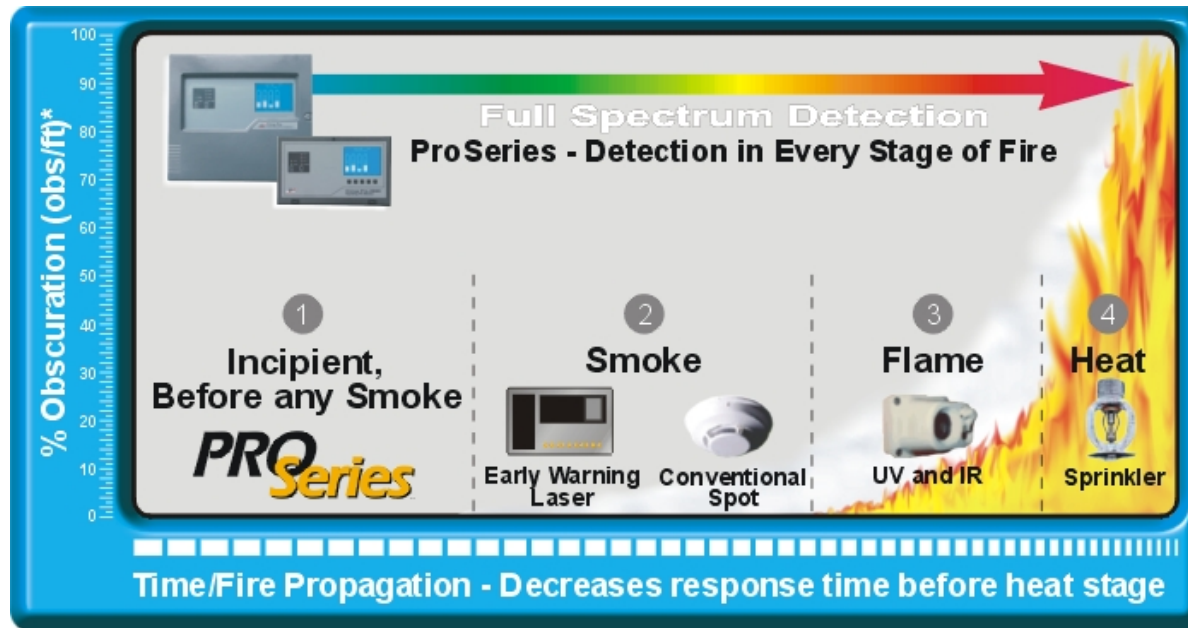
CCD Technology

Skip Video

- Before Smoke
- Before Fire
- Before Downtime



New Advanced Detection Technology



- Before Smoke
- No False Alarms
- Detects in All Four Stages of Fire

***Obscuration (obs/ft)** - Percentage of light decrease per foot due to smoke, dirt, dust or pollutants in an environment. CCD technology only senses combustion and can detect from zero to 100% obs/ft. while remaining immune to false alarms.

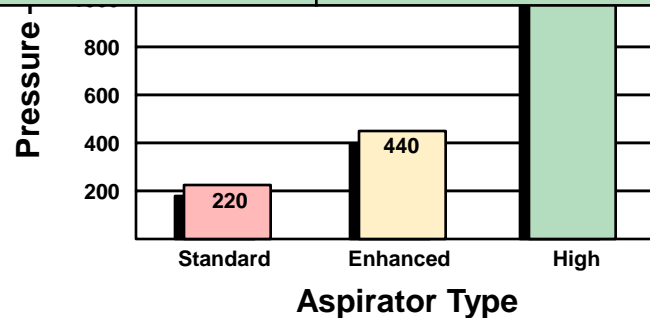
- Before Smoke
- Before Fire
- Before Downtime



The *Next Generation* in Air Sampling Fire Detection

SELECT FROM THREE DIFFERENT ASPIRATORS FOR BETTER DETECTION PERFORMANCE

Performance	Aspirator Type	Application
Good	"Laser Style"	Typical commercial environments, localized and in-cabinet detection.
Better	"Enhanced Style"	Larger commercial areas where longer pipe run lengths exceed "laser style" limits.
Best	High Pressure "Engineered Style"	Special Hazards: Large industrial hazards with high elevations and/or high airflow. Protect multiple large hazards using a single detector.



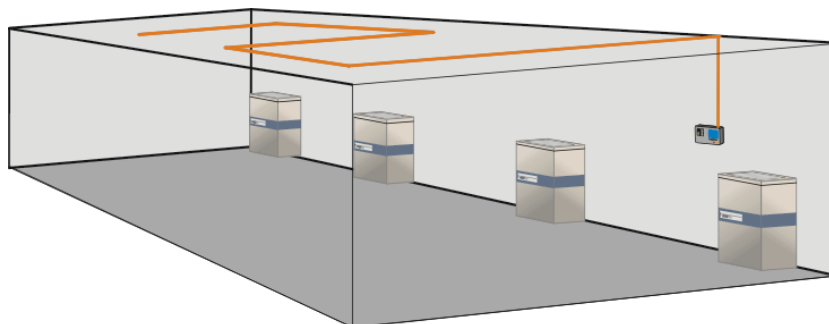


- Most Versatile
- Hazard Specific
- Cost Effective

Three Types of Aspirators

STANDARD ASPIRATOR FOR “LASER STYLE” SYSTEMS

Performance	Aspirator Type	Application
Good	“Laser Style”	Typical commercial environments, localized and in-cabinet detection.



- Conventional “Laser Style” sample pipe network
- Ideal for simple design, layout, and installation
- Small to medium size areas
- Drop in replacement for most air sampling systems

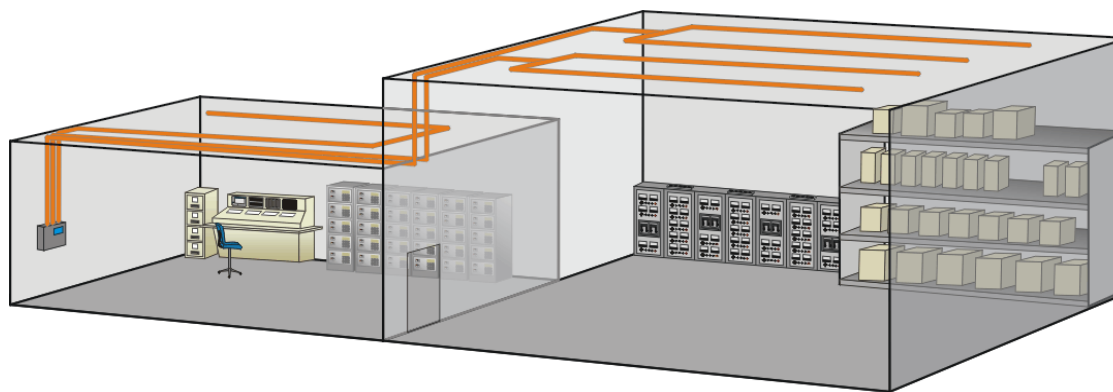


- Most Versatile
- Hazard Specific
- Cost Effective

Three Types of Aspirators

ENHANCED ASPIRATOR FOR LONGER PIPE RUNS

Performance	Aspirator Type	Application
Better	"Enhanced Style"	Larger commercial areas where longer pipe run lengths exceed "laser style" limits.



- Allows longer pipe runs than Standard "Laser Style" Aspirator systems
- Higher pressure aspirator provides greater design flexibility
- Multiple room detection from medium to large size areas
- Drop in replacement to upgrade any air sampling system

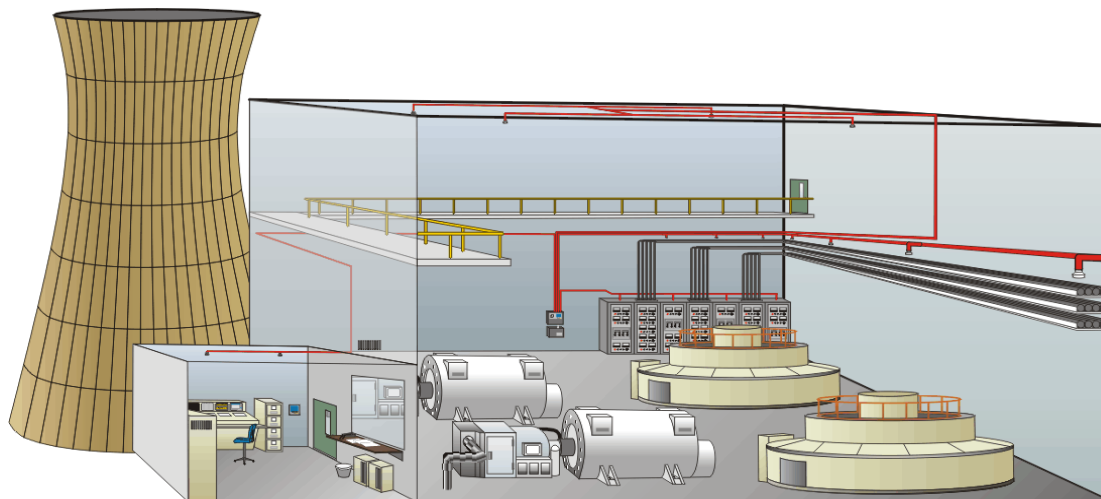


- Most Versatile
- Hazard Specific
- Cost Effective

Three Types of Aspirators

HIGH PRESSURE ASPIRATORS FOR SPECIAL HAZARD APPLICATIONS

Performance	Aspirator Type	Application
Best	High Pressure “Engineered Style”	Special Hazards: Large industrial hazards with high elevations and/or high airflow. Protect multiple large hazards using a single detector.



- Elevations up to 115 feet without multi-layering
- Ideal for high airflow applications
- Protect up to 48 CRAC units per detector
- Protect different pressure hazards on the same detector

- Before Smoke
- Before Fire
- Before Downtime



“Laser Style” Piping

STANDARD ASPIRATOR FOR “LASER STYLE” SYSTEMS

Performance	Aspirator Type	Application
Good	“Laser Style”	Typical commercial environments, localized and in-cabinet detection.



PRO 100™

- Single Zone
- Up to 10,000 sqft.
- Without Display



PRO 200™

- Single Zone
- Up to 20,000 sqft.
- Without Display



PRO 200D™

- Single Zone
- Up to 20,000 sqft.
- With Display



PRO 200DSC™

- Scanning**
- 1, 2, 3, or 4 Zones
- Up to 20,000 sqft.
- With Display

Telecom Sites • In-Cabinet • Smaller Areas

Standard

- Before Smoke
- Before Fire
- Before Downtime



“Laser Style” Piping

ENHANCED ASPIRATOR FOR LONGER PIPE RUNS

Performance	Aspirator Type	Application
Better	“Enhanced Style”	Larger commercial areas where longer pipe run lengths exceed “laser style” limits.



PRO 200+

- Single Zone.
- Up to 20,000 sqft.
- Without Display



PRO 200D+

- Single Zone
- Up to 20,000 sqft.
- With LCD Display



PRO 200DSC+

Scanning

- 1, 2, 3, or 4 Zones
- Up to 20,000 sqft.
- With LCD Display

Larger Computer Rooms • Inaccessible Spaces • Remote Areas

Enhanced



- Earliest Warning
- Most Versatile
- Before Smoke

Engineered Style Piping - ProX4

HIGH PRESSURE ASPIRATOR FOR SPECIAL HAZARD APPLICATIONS

Performance	Aspirator Type	Application
Best	High Pressure "Engineered Style"	Special Hazards: Large industrial hazards with high elevations and/or high airflow. Protect multiple large hazards using a single detector.

High Pressure

Freezer/Cold Storage

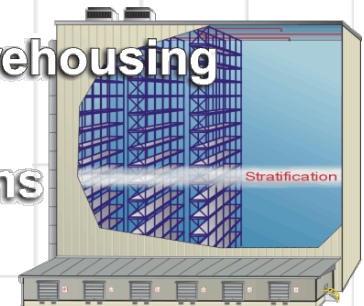
Up to 115' ceiling heights for High Pressure systems. Multi-layering of sample pipe is not required.

Scanning

- 1, 2, 3, or 4 Zones
- Up to 43,200 sq ft
- With LCD Display
- Largest Aspirator
- Longest Pipe
- Up to 115'

Plant Applications

Warehousing



Freezers/Coolers • Warehousing • Power Plants • Industrial Sites • Atriums

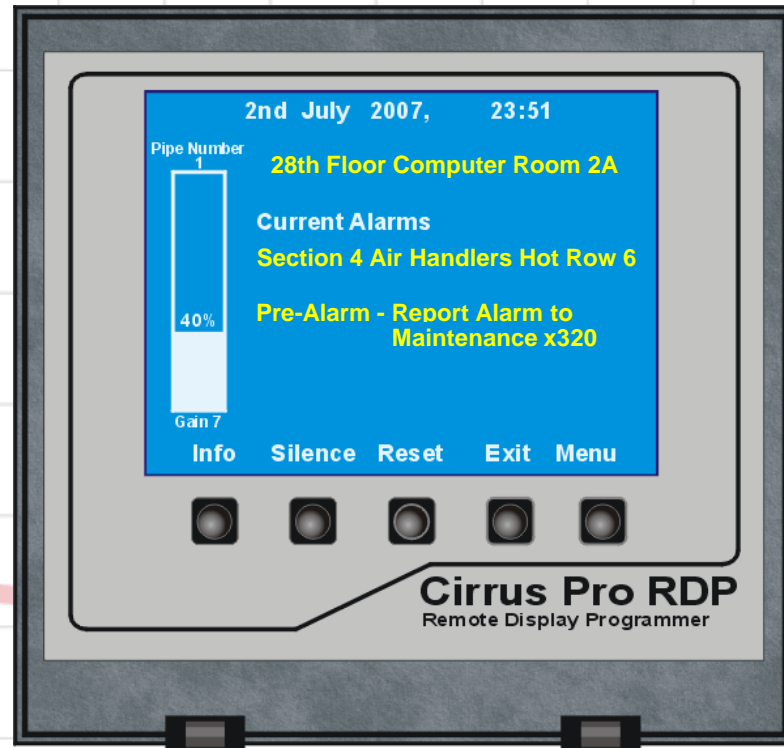
- LCD Display
- User Friendly
- Easy to Program



ProRemote Display , Network Hub, and Programmer

USER FRIENDLY LCD DISPLAY

- Pin-Point Detector Location
- Identify Each Zone
- Provide specific instructions for your personnel to follow at each level of alarm



Remote Display

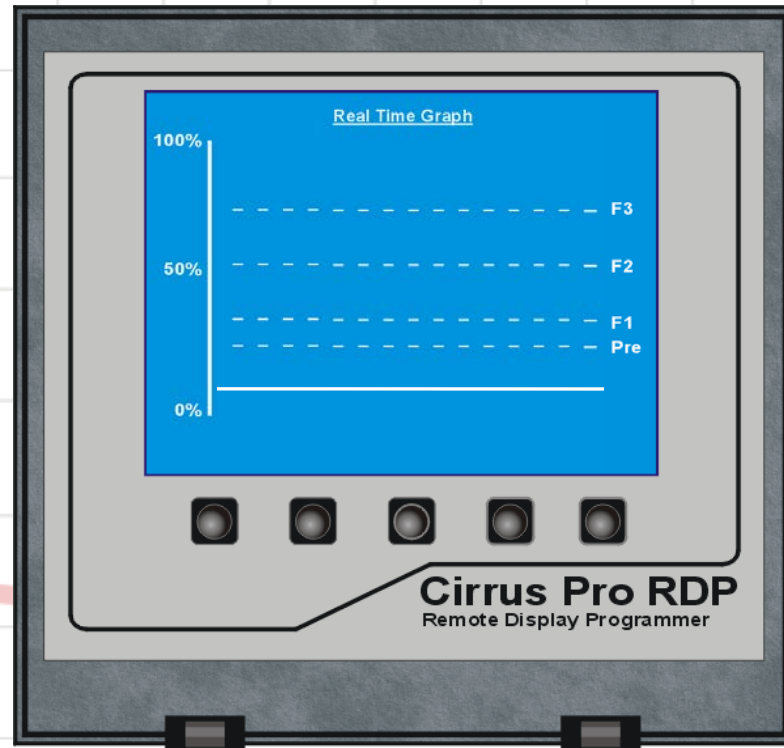
- LCD Display
- User Friendly
- Easy to Program



ProRemote Display , Network Hub, and Programmer

USER FRIENDLY LCD DISPLAY

Real Time Graph



- Portable
- Light Weight
- Simple to Use

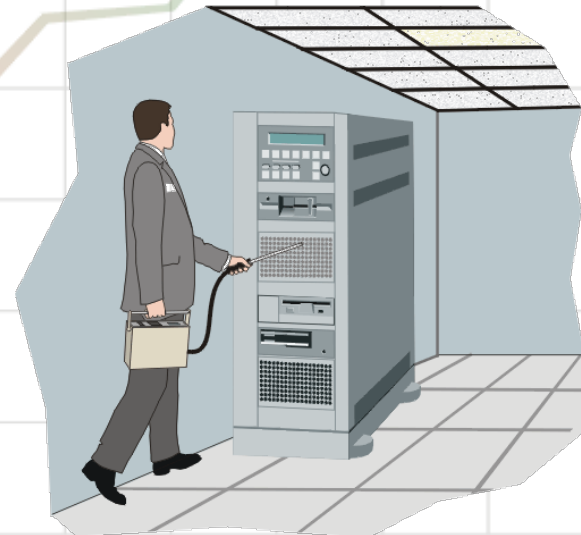
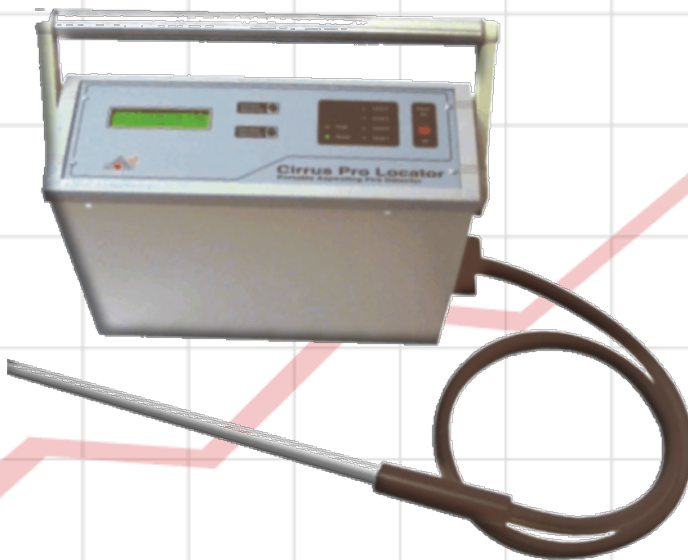


Where's the Fire?

PORTABLE ASPIRATING FIRE DETECTION

**Any air sampling system can tell you which room,
only ProLocator can tell you where in the room.**

PRO
LocatorTM



Portable



- Detector Network
- PC Network
- Internet Network

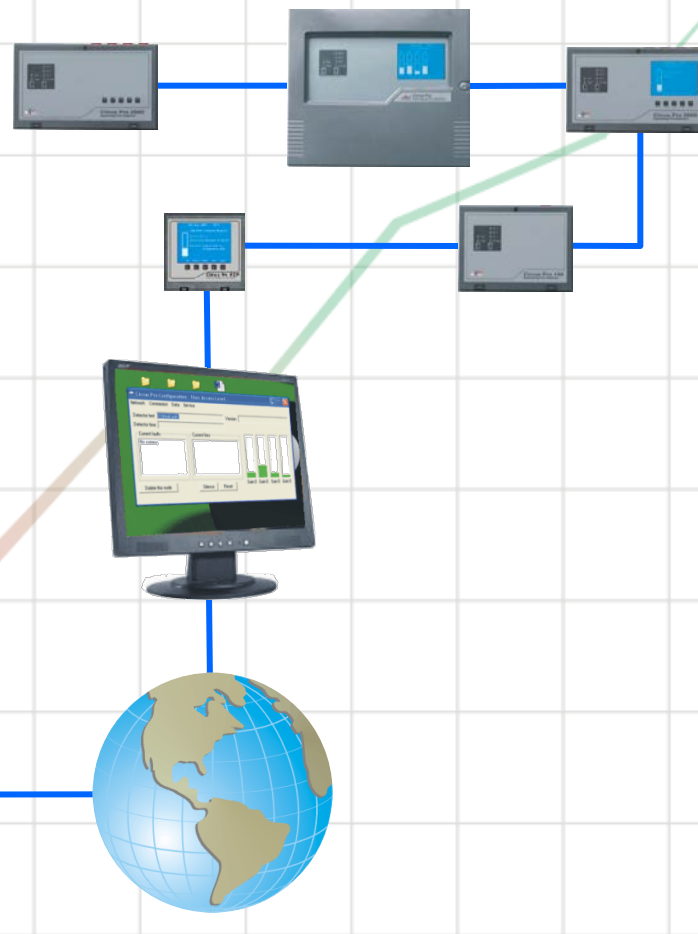
Expanded Networking Abilities

MULTIPLE DETECTOR NETWORKING OPTIONS

- **Peer to Peer Detector Networking**
Built-In RS485 Networking

- **Complimentary CirrusPro**
Network Software for PC

- **Ethernet TCP/IP Networking**
Cirrus ProNet Software



- Before Smoke
- Before Fire
- Before Downtime



Customer Focused Solutions

Applications

SPECIAL HAZARD



- Freezer/Cold Storage Facilities
- Clean Rooms
- Harsh Industrial Environments

HIGH TECH



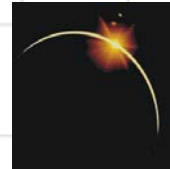
- Telecom
- Data Centers
- Servers

INSTITUTIONAL



- Museums and Historic Sites
- Schools, Cathedrals
- Correctional Facilities

ANYWHERE






- Shopping Malls and Stores
- Offices and High Rises
- Virtually any Application

- Before Smoke
- Before Fire
- Before Downtime



Customer Focused Solutions

Performance	Aspirator Type	Application
Good	"Laser Style"	<p>Typical commercial environments, localized and in-cabinet detection.</p> 
Better	"Enhanced Style"	<p>Larger commercial areas where longer pipe run lengths exceed "laser style" limits.</p> 
Best	High Pressure "Engineered Style"	<p>Special Hazards: Large industrial hazards with high elevations and/or high airflow. Protect multiple large hazards using a single detector.</p> 

Solutions



One Company, Five Great Products





FIVE PRODUCT SOLUTIONS...

PRO
Series

Aspirating Fire Detection

PRO
Locator

Portable Air Sampling Fire Detection

THERMO
LHD Cable

Linear Heat Detection

PRO
H₂O

Water Leak Detection

THERMO
LNG Cable

Liquid Natural Gas Detection

...ONE COMPANY



P O R T A B L E

PRO Locator™



*Localize the Source of Any
Early Warning Fire Detection Alarm*



A S P I R A T I N G D E T E C T I O N

- Survey
- Isolate
- Identify



Portable Aspirating Fire Detection

Fires are the greatest threat to business today.



**Preventing business interruption
and downtime is critical**

- Survey
- Isolate
- Identify



Portable Aspirating Fire Detection

Where's the Fire?



PRO Locator™



Portable Air Sample Detection

Identify the Source

[Skip Video](#)

- Survey
- Isolate
- Identify



Portable Aspirating Fire Detection

6.

Take corrective action by notifying the appropriate personnel and by following proper emergency procedures.



- Survey
- Isolate
- Identify



Portable Aspirating Fire Detection

**Any “Laser Style” aspirating detector can tell you which room,
only the ProLocator can help you find where in the room!**



FEATURES

- Works with any “Laser Style” Aspirating System
- Probe inside equipment and above drop ceilings
- Not effected by dirt, dust, temperature or humidity
- Completely self contained
- Includes sampling probe and battery charger
- Does not require any recalibration
- Multi-speed audible tone and LED indicators to help guide you in the right direction
- Operates on both batteries and AC power

Portable

Applications

- Survey
- Isolate
- Identify



Can be Used Anywhere

PRO Locator™



APPLICATIONS

- Computer Rooms
- Power Plants
- Office Buildings
- Warehouses
- Hospitals
- Data Centers
- Cleanrooms
- Fire Departments



- Survey
- Isolate
- Identify



Portable Aspirating Fire Detection

PRO ***Locator™***





One Company, Five Great Products





FIVE PRODUCT SOLUTIONS...

PRO
Series

Aspirating Fire Detection

PRO
Locator

Portable Air Sampling Fire Detection

THERMO
LHD Cable

Linear Heat Detection

PRO
H₂O

Water Leak Detection

THERMO
LNG Cable


Liquid Natural Gas Detection

...ONE COMPANY




ADDRESSABLE

THERMO
LHD Cable™



UL
UL
C US
FM
APPROVED
CSFM
MEA

Addressable / Conventional Linear Heat Detection



LINEAR HEAT DETECTION

- Innovations
- Solutions
- Support



Linear Heat Detection

Better

- Now for Use on ANY Addressable Panel
- Just Add an Addressable Contact Monitor Module
- Compatible with ANY Conventional Fire Alarm Panel

THERMO
LHD Cable™

Farther

- Up to 10,000 Linear Feet (3,000m) of ThermoCable per Zone
- RF Tested up to 10,000 Linear Feet (3,000m)
- Longer Spool Lengths Available

Lower Cost

- Lower Material Costs
- Less Installation Time
- No Expensive Linear Heat Detection Panels to Buy and Maintain





Up to 10,000 Linear Feet per Zone

- Longer Runs
- Less Resistance
- Lower cost

WHY THERMOCABLE?

THERMO Cable

Features and Benefits

Advanced Design Allows Up to 10,000 Linear Feet of ThermoCable per Zone

Tri-Metallic Core Reduces Resistance to Only .05 ohms/ft Resistance per Twisted Pair Wire

Designed to be Compatible with ALL Addressable and Conventional Fire Alarm Control and Releasing Panels

Reduce Material and Installation Costs with Less Splicing, Longer Spool Lengths, and Easier Installation

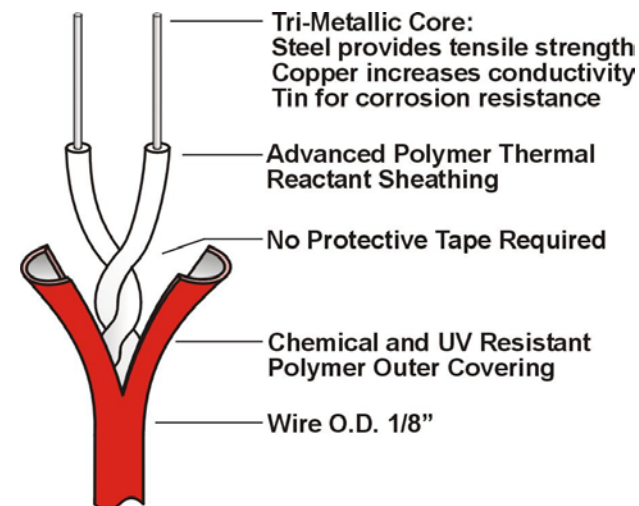
Multiple alarm temperatures can be combined on the same zone

Total zone length replacement unnecessary after alarm



Detection Temperatures:

155°F (68°C)
172°F (78°C)
190°F (88°C)
220°F (105°C)





- Longer Runs
- Less Resistance
- Lower cost

Up to 10,000 Linear Feet per Zone

WHY THERMOCABLE?

THERMO
Cable

Features and Benefits

Multiple Outer Coverings Available for Specific Hazards

Nylon - UV protected for outdoor applications and extra durable for harsh industrial environments.

Polypropylene – For chemically harsh and caustic environments such as wet benches.

GuideWire – For spanning distances up to 250 ft. (76m) with supports every 15 ft. (4.6m).

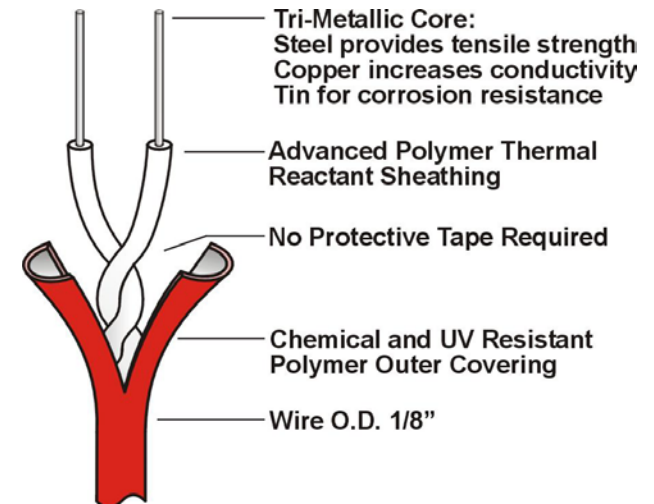
TC155NG

Temperature | Nylon | Guidewire



Detection Temperatures:

155°F (68°C)
172°F (78°C)
190°F (88°C)
220°F (105°C)





- Longer Runs
- Less Resistance
- Lower cost

Up to 10,000 Linear Feet per Zone

WHY THERMOCABLE?

Features and Benefits

THERMO
Cable

Alarm Point Distance Locating Displays in Both Feet and Meters

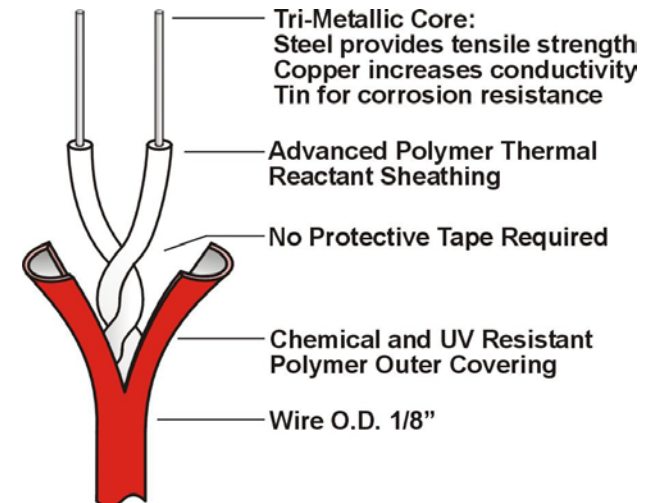
May be Used for Both Class “A” and “B” Applications

Alarm Point Distance Locating



Detection Temperatures:

155°F (68°C)
172°F (78°C)
190°F (88°C)
220°F (105°C)





- Longer Runs
- Less Resistance
- Lower cost

Only .05 ohms/ft resistance per Twisted Pair

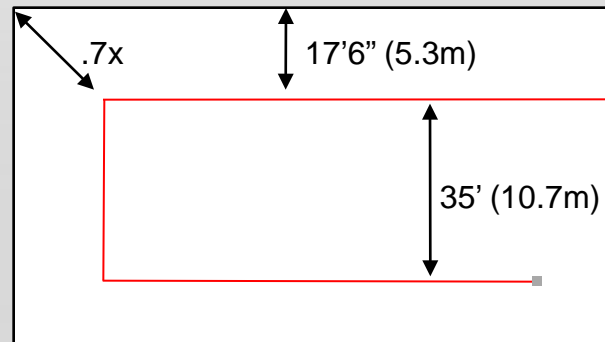
SPACING AND TEMPERATURE

THERMO
LHD Cable

Listed Spacing

Temperature Rating	UL, C-UL-US	FM
155°F (68°C)	35' (10.7m)	30' (9.1m)
172°F (78°C)	35' (10.7m)	30' (9.1m)
190°F (88°C)	35' (10.7m)	30' (9.1m)
220°F (105°C)	35' (10.7m)	25' (7.6m)

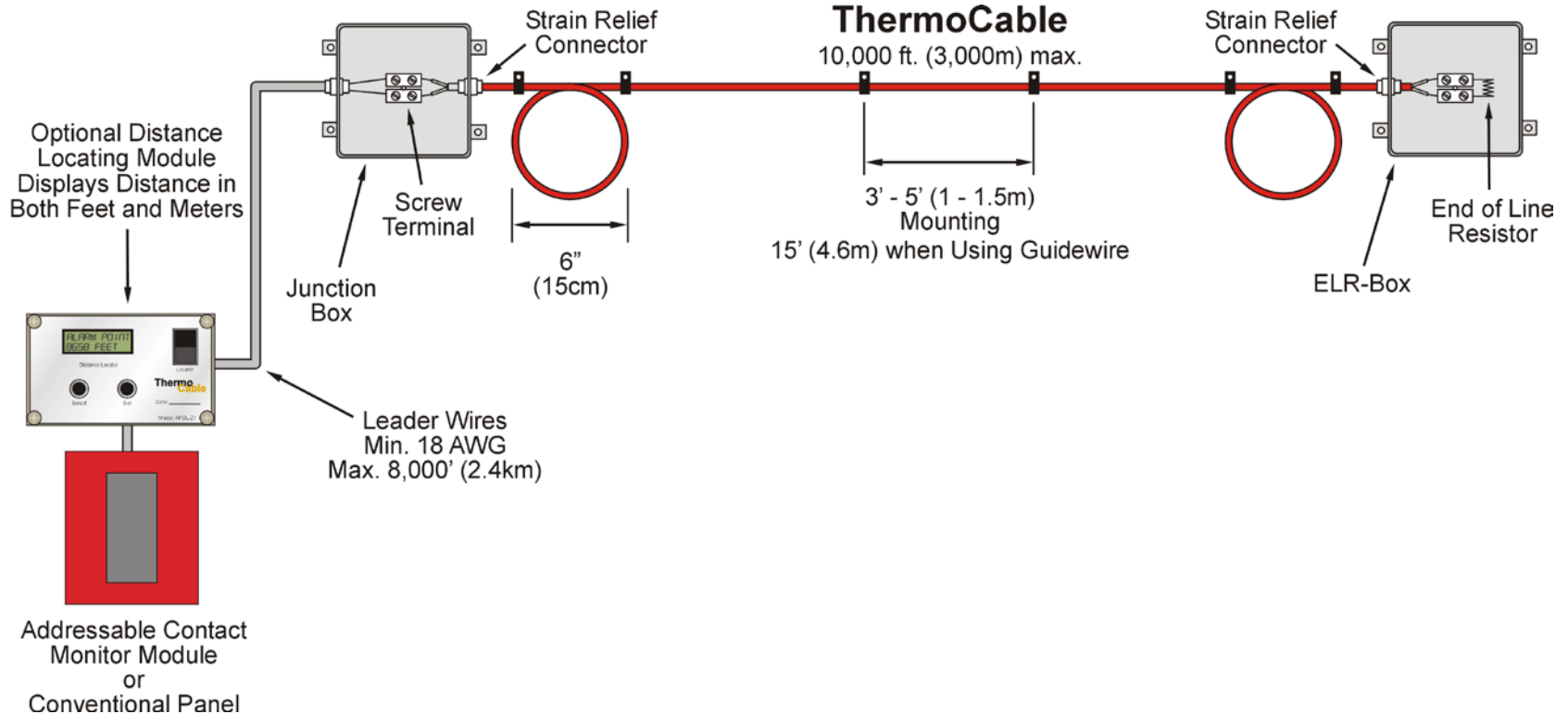
Area Spacing



- Any Panel
- Addressable
- Conventional



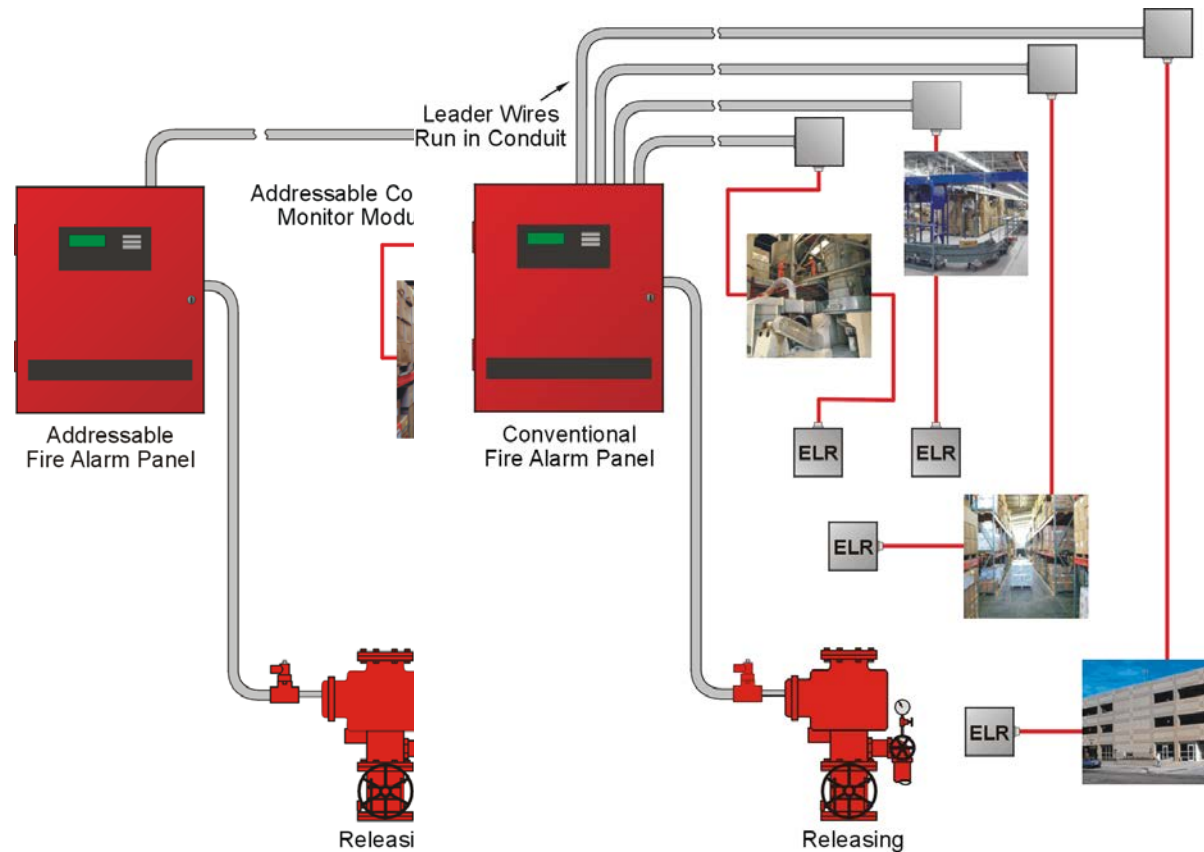
System Components



- Any Panel
- Addressable
- Conventional



Typical System Configurations



Accessories

- Mounting
- Connecting
- Splicing



Installation Accessories

Mounting



**Clamps, Clips, Ties,
Mounts, Adhesive**

Connecting



**Junction Boxes
and Fittings**

Splicing

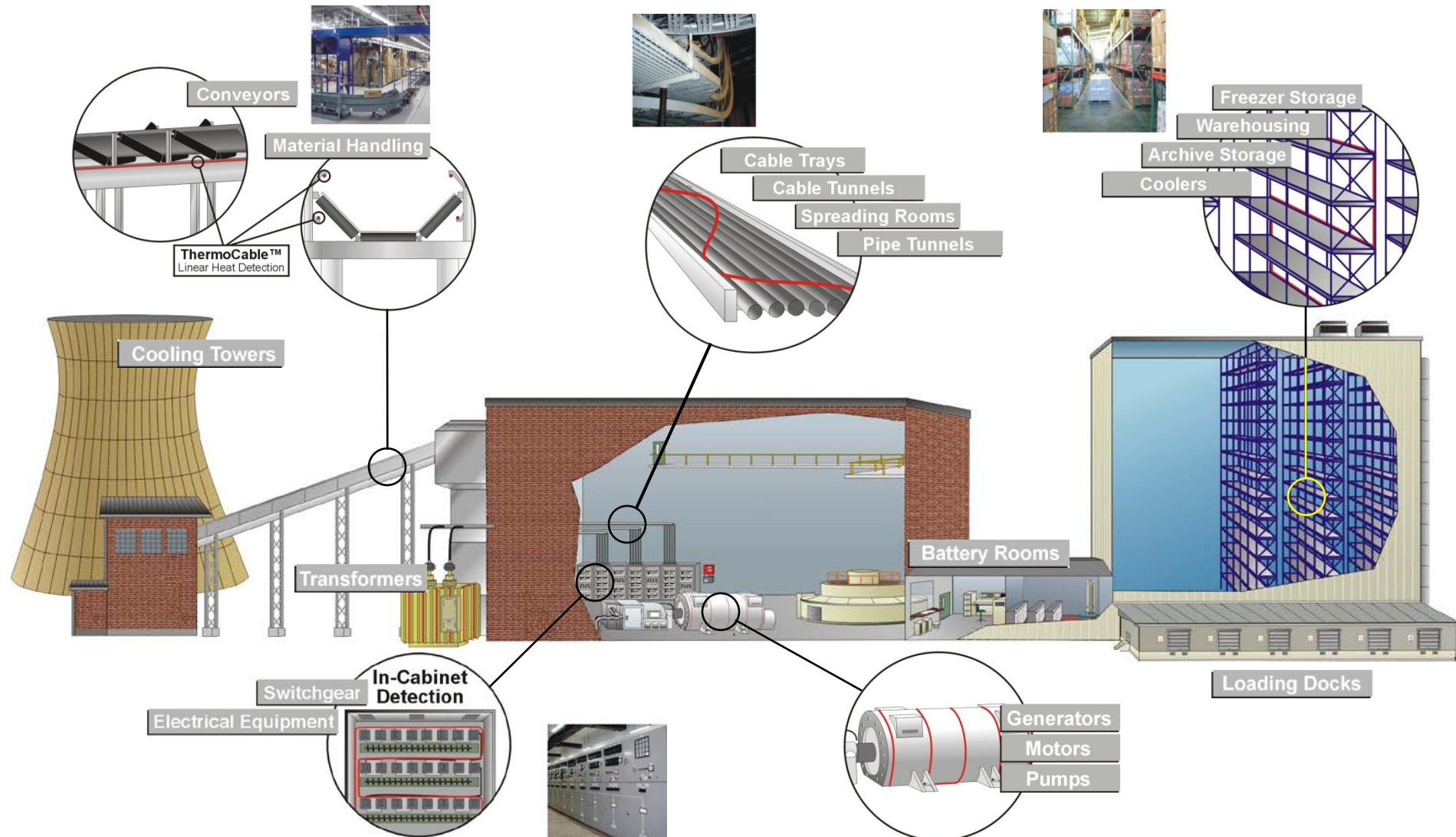


**Terminal Blocks,
Tapes, Sealers**



- Commercial
- Industrial
- Utilities

Flexibility to Adapt to Your Environment



- Any Panel
- Addressable
- Conventional



Addressable / Conventional Linear Heat Detection

THERMO
LHD Cable™



Linear Heat Detection



One Company, Five Great Products





FIVE PRODUCT SOLUTIONS...

PRO
Series

Aspirating Fire Detection

PRO
Locator

Portable Air Sampling Fire Detection

THERMO
LHD Cable

Linear Heat Detection

PRO
H₂O

Water Leak Detection

THERMO
LNG Cable

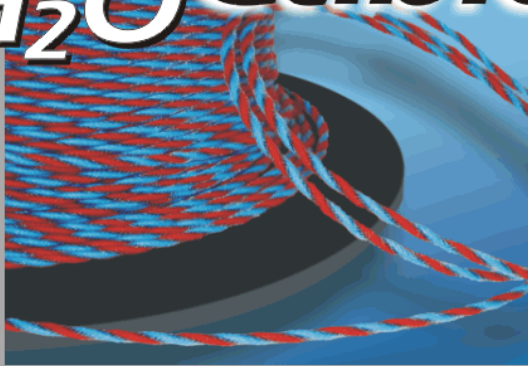
Liquid Natural Gas Detection

...ONE COMPANY




I N T E L L I G E N T

PRO
H₂O **Cable™**



Addressable Linear Leak Detection



W A T E R L E A K D E T E C T I O N

- Any Panel
- Addressable
- Conventional



Where water based leaks cannot be tolerated

Prevent

- Prevent business interruption, downtime, and loss of revenue

PRO
H₂O **Cable™**

Protect

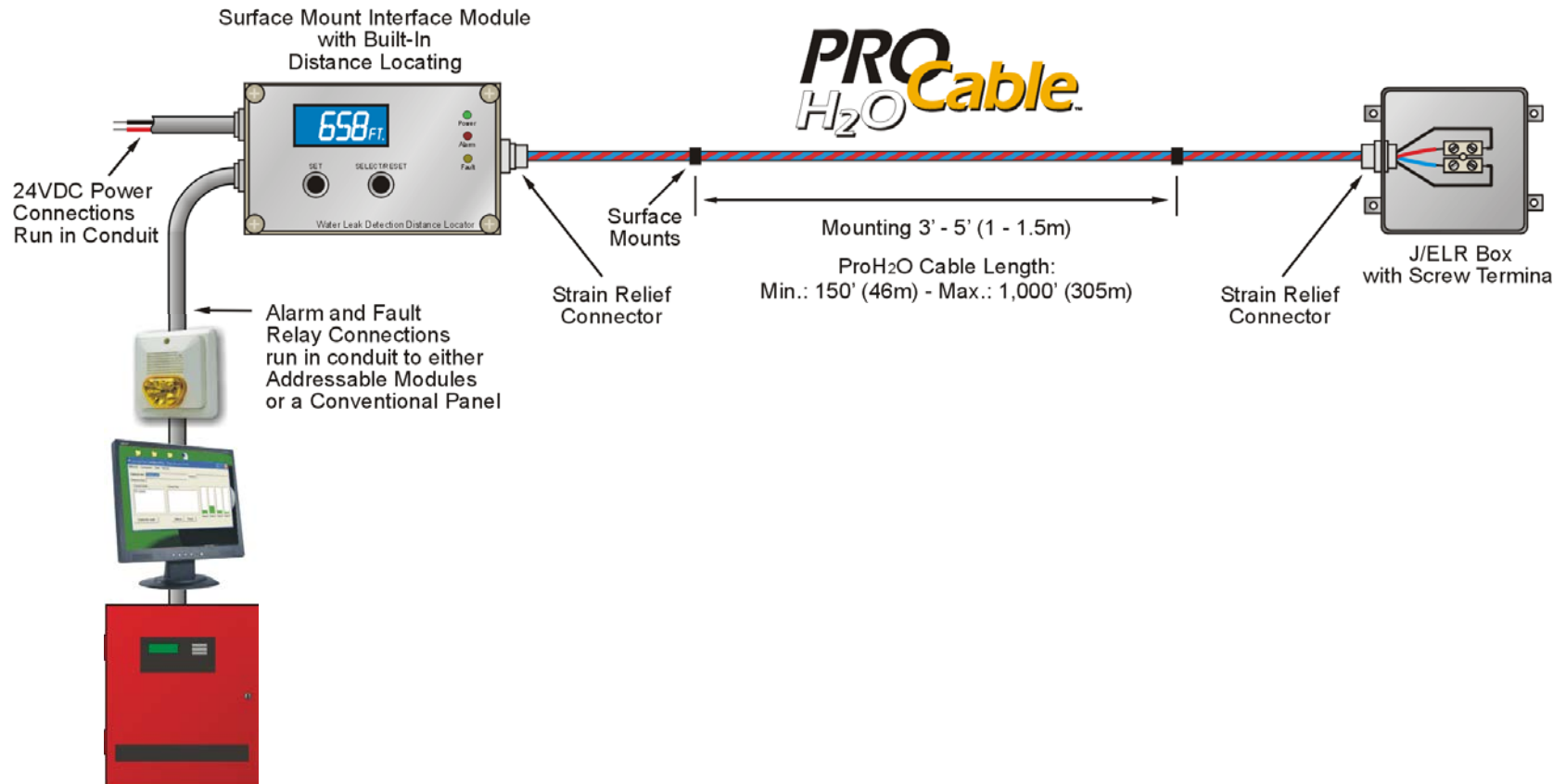
- Protect business investment and electrical equipment



- Any Panel
- Addressable
- Conventional



ProH2O Water Leak Detection System Components



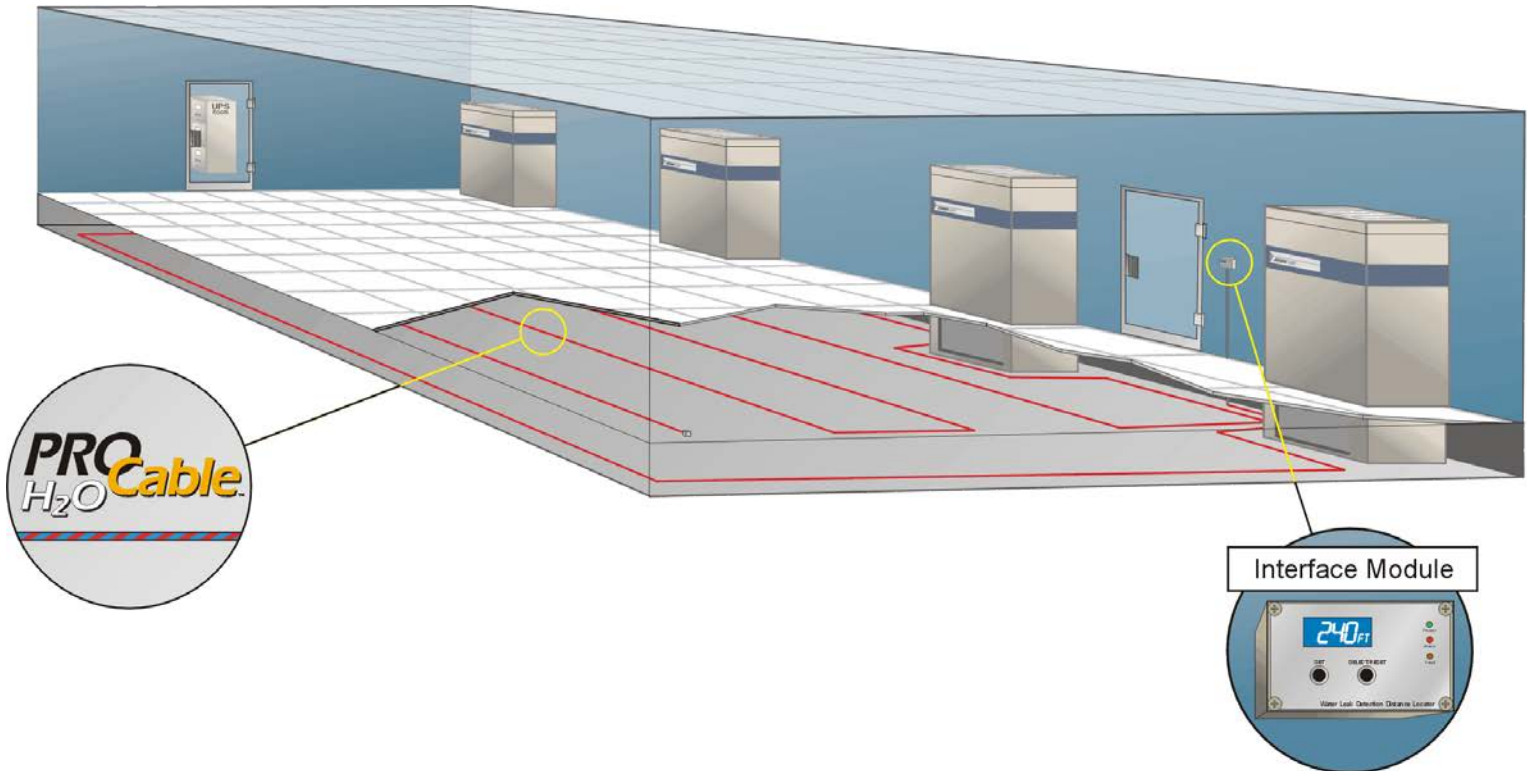
Components

- Any Panel
- Addressable
- Conventional



ProH2O Water Leak Detection System

Components

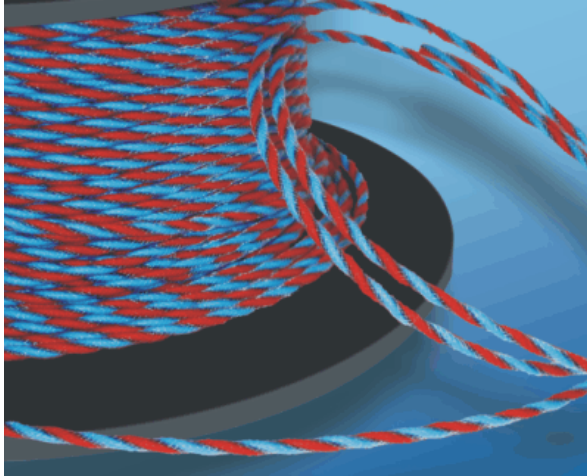


- Any Panel
- Addressable
- Conventional



Features

PRO
H₂O *Cable*™

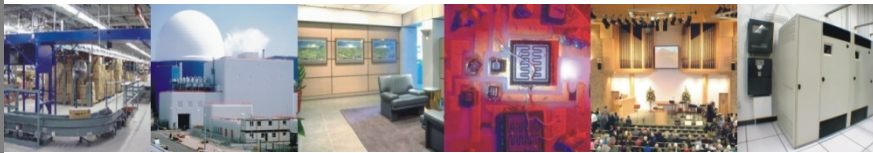


FEATURES

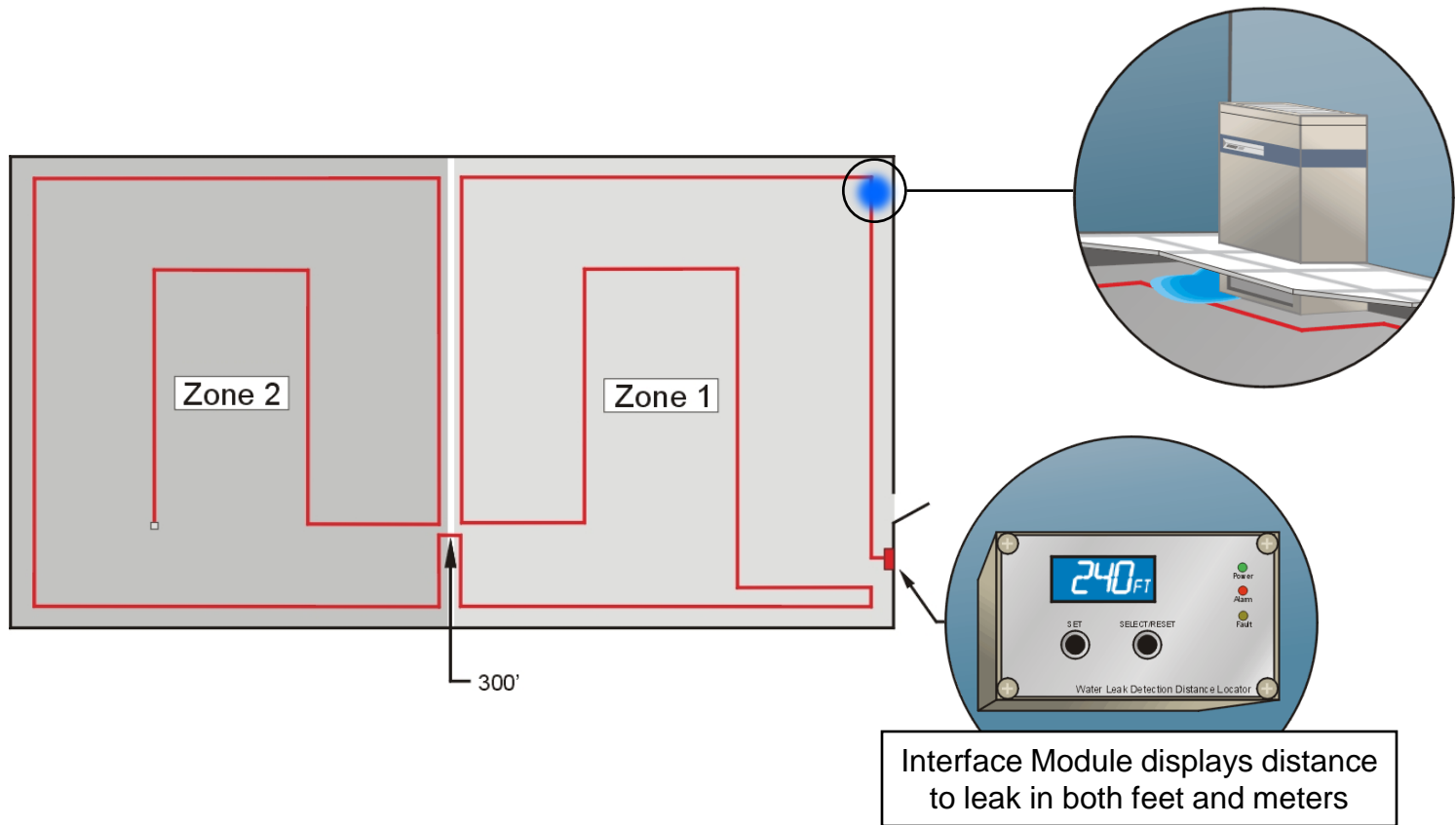
- Use with any panel, Addressable or Conventional
- Built-in distance locating
- Self restoring
- Up to 1,000 feet (305m) per zone
- Can detect a leak anywhere along the entire cable
- 4-20mA and 0-10VDC analog output
- Alarm and fault relay outputs
- Interface module with internal alarm and fault sounder

Typical System

- Any Panel
- Addressable
- Conventional



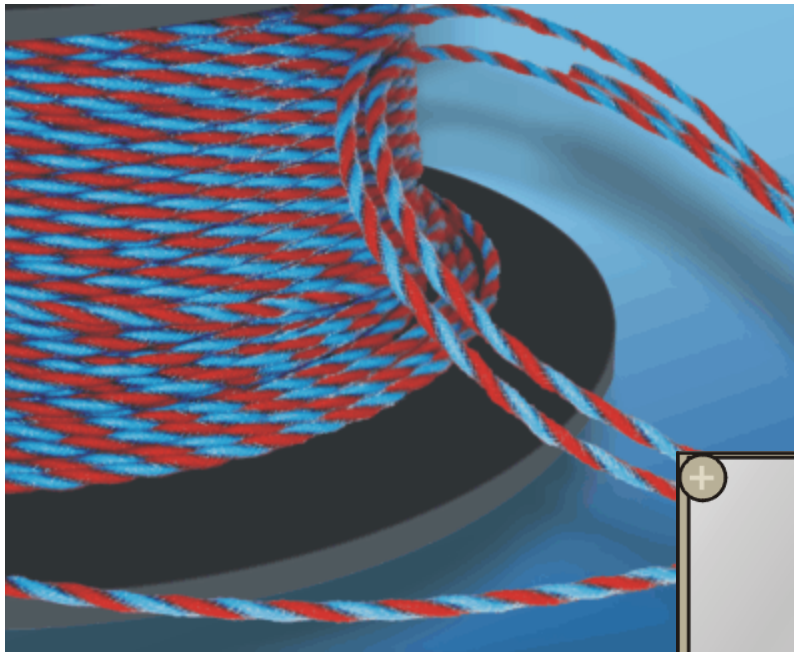
Typical System Configuration



- Any Panel
- Addressable
- Conventional



Water Leak Detection



PRO
H₂O **Cable**™





One Company, Five Great Products





FIVE PRODUCT SOLUTIONS...

PRO
Series

Aspirating Fire Detection

PRO
Locator

Portable Air Sampling Fire Detection

THERMO
LHD Cable

Linear Heat Detection

PRO
H₂O

Water Leak Detection

THERMO
LNG Cable

Liquid Natural Gas Detection

...ONE COMPANY




LIQUID NATURAL GAS

THERMO
LNG Cable™



Liquid Natural Gas Leak Detection Cable



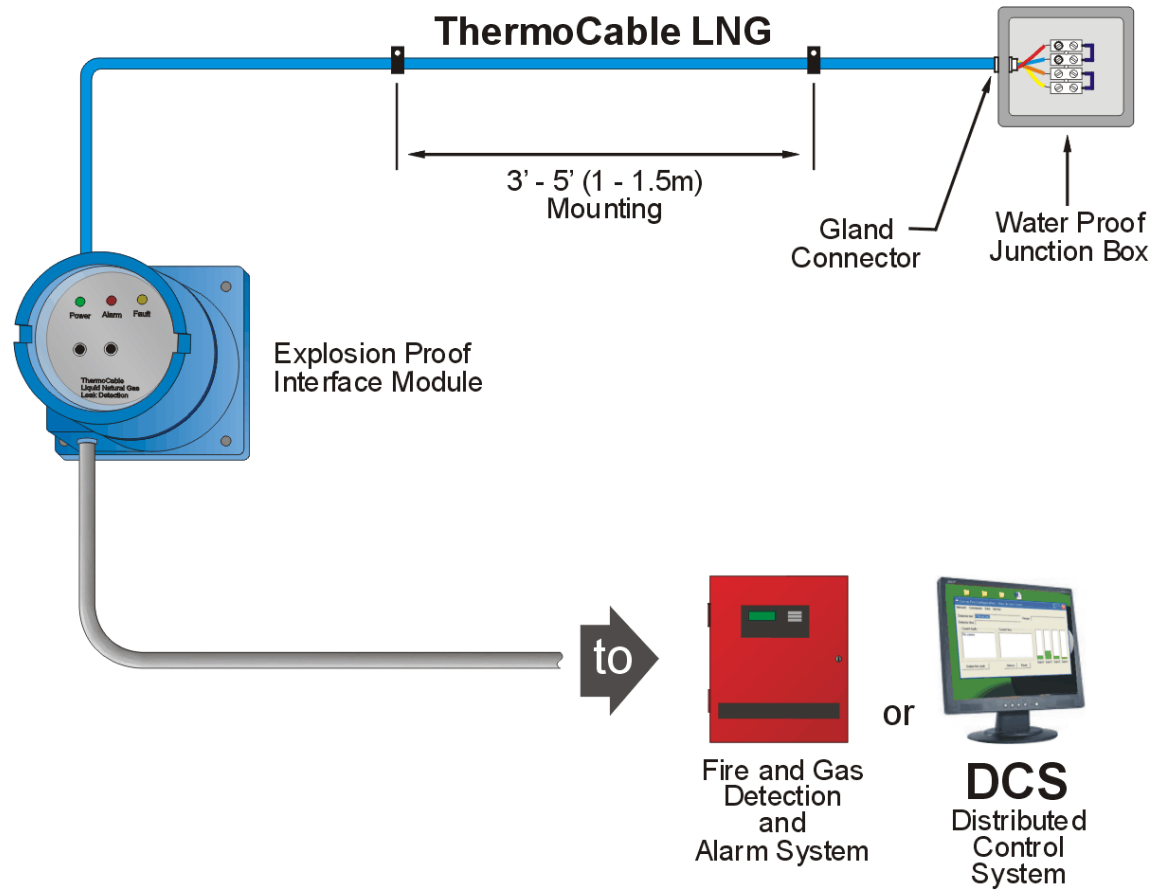
LEAK DETECTION

- Any Panel
- Addressable
- Conventional



Liquid Natural Gas Leak Detection

Components



- Any Panel
- Addressable
- Conventional



Liquid Natural Gas Leak Detection

THERMO
LNG Cable



FEATURES

- Lower cost
- Detects rapid decreases in temperature
- Less than 30 second response time
- Self restoring, no need to replace detection cable
- Can detect anywhere along the entire length of wire
- Long lengths, up to 400 feet

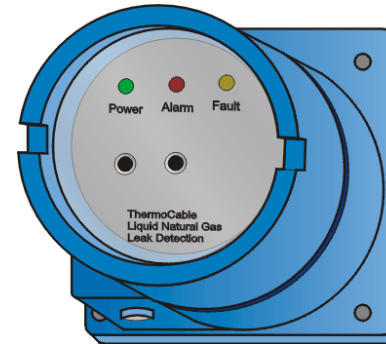
Product

- Any Panel
- Addressable
- Conventional



Liquid Natural Gas Leak Detection

THERMO **LNG** *Cable*



FEATURES

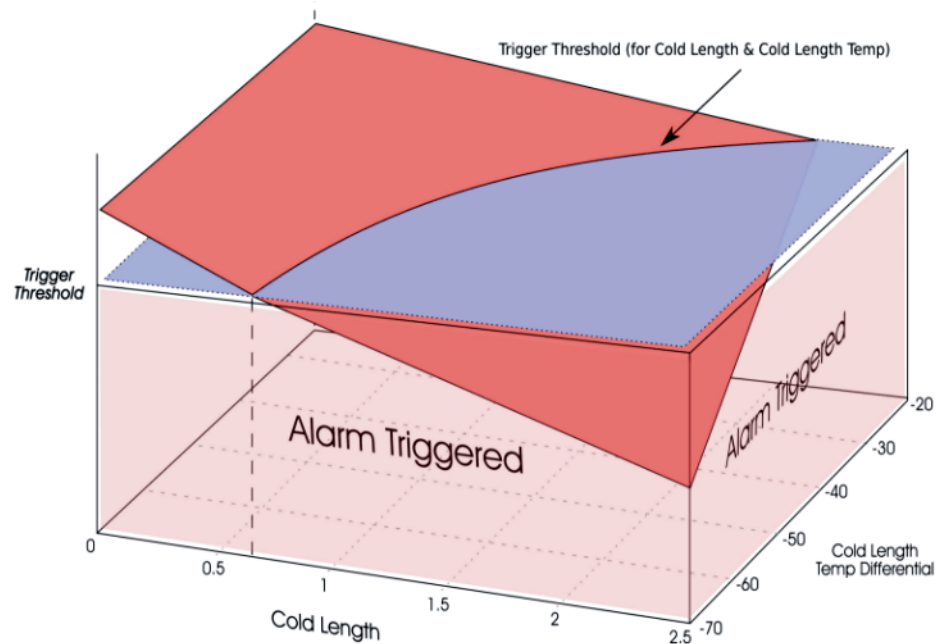
- Interface with any FACP, BMS, or DCS
- LED and audible Alarm and Fault indicators
- Explosion proof enclosure
- Intrinsically Safe detection circuit

Product

- Any Panel
- Addressable
- Conventional



Liquid Natural Gas Leak Detection



- Automatically adjusts for ambient temperatures
- Compensates for day and night temperatures
- Compensates for seasonal temperature changes

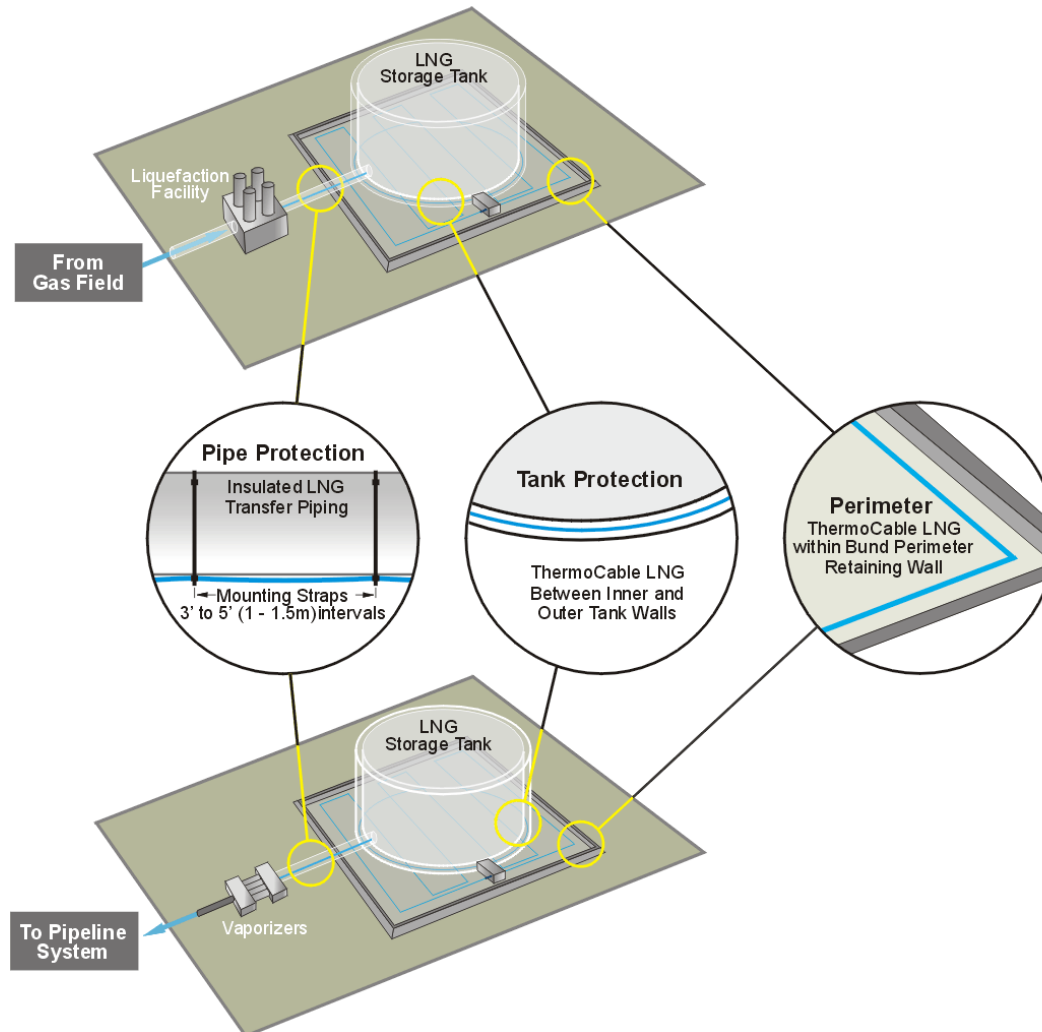
Product

Hazards

- Any Panel
- Addressable
- Conventional



Liquid Natural Gas Hazards

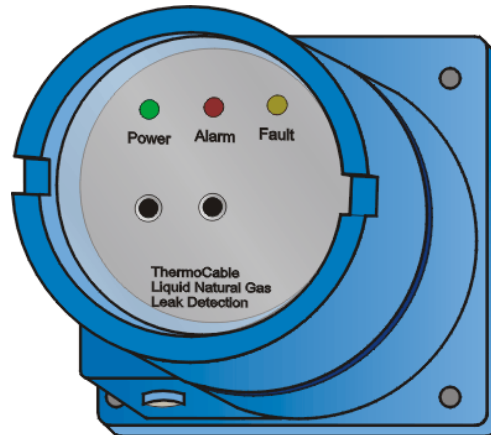


- Any Panel
- Addressable
- Conventional



Liquid Natural Gas Leak Detection System

THERMO **LNG Cable**™





One Company, Five Great Products





FIVE PRODUCT SOLUTIONS...

PRO
Series

Aspirating Fire Detection

PRO
Locator

Portable Air Sampling Fire Detection

THERMO
LHD Cable

Linear Heat Detection

PRO
H₂O

Water Leak Detection

THERMO
LNG Cable

Liquid Natural Gas Detection

...ONE COMPANY

