Eagle Quantum Premier® System Compatibility

Approved Flame and Gas Safety System

The Det-Tronics Eagle Quantum Premier (EQP) Fire and Gas System provides a complete certified releasing and gas controller. The network is completely fault-tolerant and ensures operation with open and/or shorted wiring conditions. This increased availability guarantees that your system is always ready to respond to a demand.

EQP system features include the following:
- Worldwide approvals
- Third-party approved as a flame and gas controller
- Simple connection to emergency shutdown (ESD) or other safety systems
- Easy maintenance

Open Path Eclipse Gas Detector

A detection range of 5 to 120 meters in a single device
The Det-Tronics® Open Path Eclipse… keeping safety in sight

For Best-in-Class Infrared Gas Detection

The Det-Tronics® Open Path Eclipse (OPECL) is an infrared gas detector for continuously monitoring hydrocarbon gas. It is based on the industry-leading Det-Tronics point infrared gas detector and is designed to meet the latest FM 6395/ISA-12.13.04 standard. The OPECL consists of two modules, a receiver and a transmitter. IR wavelengths are absorbed by the gas, with the amount of absorption depending on the concentration. Optical detectors measure the absorption, and the gas concentration is communicated to external control and annunciation systems. The OPECL has a T90 response speed of less than 5 seconds indoors and outdoors. It is designed to be used outdoors without a special setting. It detects most hydrocarbon gases and vapors, including methane, ethane, propane, butane, and propylene. The OPECL is the most reliable solution for gas detection in refineries, onshore and offshore petrochemical plants, pharmaceutical plants, pipelines, and loading racks.

Field Configurable Using the HART® Handheld Device

The OPECL is compatible with the HART communication protocol, which can be used to review calibration and alarm data logs, operation parameters, and diagnostic information. The Model 375 Communicator includes the OPECL and PointWatch Eclipse® infrared gas detector device description language (DDL) software. Intrinsically safe extension cables are available for remote access of the HART communication.

OPECL Performance Approvals

The OPECL is the only open path gas detector to have achieved worldwide hazardous location and performance approvals on a single model. In addition, it is IECEx certified for hazardous locations to meet global electrical standards.

Customer-Driven Benefits

- A cost-effective solution providing both short- and long-range detection in a single system
  The full-range OPECL covers a distance of 5 m to 120 m (16 ft to 394 ft), unlike other open path gas detection systems that require the purchase of separate systems for short-range and long-range detection.

- A comprehensive detection solution for maximum protection
  Combine Det-Tronics OPECL detectors with Eclipse point IR detectors for optimal coverage across a wide area.

- Minimum maintenance time required
  The OPECL has no motor or moving parts to wear out and need replacement. If maintenance is required, remove the electronics module, which keeps the wiring intact so no rewiring is necessary.

- Ability to react to a potential disaster immediately
  OPECL response time is less than 5 seconds indoors and outdoors.

- Ease of alignment
  Accurate alignment of the transmitter and receiver modules is fast and easy with the OPECL alignment telescope kit.

- Superior performance ensures failsafe operation and continuous monitoring under all conditions
  Heated optics prevent icing and condensation, maintaining the detector’s high sensitivity in all environments even under extreme weather conditions. Nondestructive sensors cannot be poisoned. Xenon flash lamps provide total solar immunity while maintaining excellent sensitivity. In addition, the OPECL performs a self-diagnostic test once per second to ensure failsafe operation.

- Vibration-resistant mounting prevents misalignment
  The rock-solid mounting hardware firmly holds the OPECL in place.