

MCG 8160 Liquid/Hydrocarbon Sensor, MCG 8165 Hydrocarbon Sensor, MCG 8170 Hydrocarbon Vapor Sensor

The MCG 8160, MCG 8165 and MCG 8170 are a powerful trio of leak sensors. These three probes can function together as part of a complete leak detection system by sensing for leaks in existing tanks and testing for hydrocarbon liquids in ground water, as well as hydrocarbon vapors in the soil surrounding underground tanks. All three sensors feature L&J's exclusive 4-wire data highway, and can be used to communicate with L&J monitoring computers, such as the MCG 8100, for comprehensive remote tank monitoring.

The MCG 8160 Liquid/Hydrocarbon Sensor

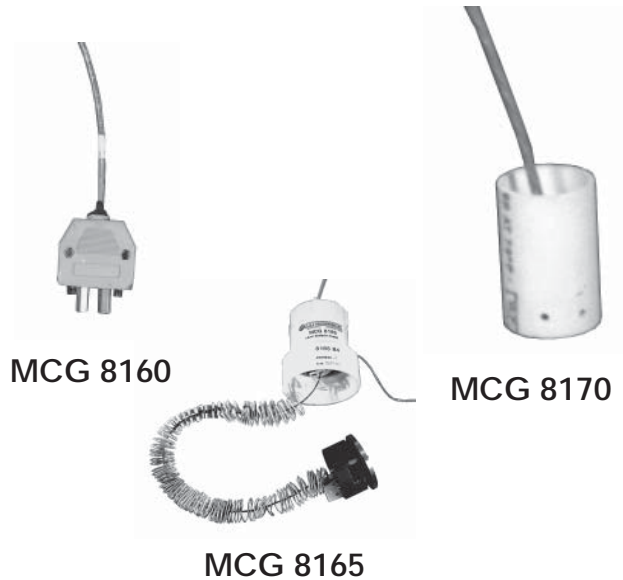
The first of these probes, the MCG 8160, uses two separate sensors to detect the presence of a liquid, and identify whether that liquid is water or a hydrocarbon. The MCG 8160's ability to make this distinction can help pinpoint whether the inner or outer wall of a dual-containment system has been breached. The probe can also be installed in dry monitoring wells, where it's often used in conjunction with L&J's top-rated vapor sensor- the MCG 8170.

The MCG 8165 Hydrocarbon Sensor

The MCG 8165 is used primarily in wet wells. It is made up of a float and flexible self bailing cable assemblies. The float keeps the sensing elements of the probe submerged at the very top of ground water. This is where hydrocarbons from a leak will show up first. Optionally, the MCG 8170 vapor sensor can be installed into the MCG 8165 which is a configuration that gives the probe unique hydrocarbon liquid and vapor sensing capabilities.

The MCG 8170 Hydrocarbon Vapor Sensor

The MCG 8170 is a solid state vapor absorption device constructed of a special porous material that is extremely sensitive to hydrocarbons. When properly installed (in a dry monitoring well, for example), the MCG 8170 selectively and accurately senses hydrocarbon vapors leaching into the soil or ground water from leaking petroleum products. And, unlike many vapor sensors, the MCG 8170 is reusable and never has to be reset.



Features

- Parts Per Million Accuracy
- Certified for Ground Monitoring
- Senses Hydrocarbon Liquids in Ground Water
- Senses Hydrocarbon Vapors in Soil Surrounding Underground Tanks

Applications

- Liquid sensing in wet or dry areas, such as tanks or wells
- Vapor sensing in wet or dry areas, such as tanks, wells, or adjacent soil
- Monitoring of annular space in dual wall tanks
- Used in conjunction with the MCG 8100 Tank Monitoring System

The MCG 8160, 8165 and 8170 sensors offer rugged construction for years of reliable, trouble-free performance. The probes ship ready to install and come equipped with the following standard features:

MCG 8160 Specifications

Easy Installation into the annular space of dual wall tanks, or in external monitoring wells where ground water is present, 15 feet of field wiring, Product/water identification capabilities

Operating Principle:

Resistance & Thermal Conduction

Trip Point:

Immediate Upon Contact

Communication:

Intrinsically Safe Power Supplied by L&J 4-Wire Data Highway

Enclosure Size:

1.65" Diameter x 2.75" Height

Temperature Range:

-40°C to 50°C

Min. Annular Space:

Fits 1-1/2" Vertical Annulus

Approvals:

UL Listed

MCG 8165 Specifications

Easy Installation into a variety of tank types, 8 feet of field wiring, Product/Water identification capabilities, A monitor that is adjustable to a 10' depth

Operating Principle:

Solid State Vapor Absorption

Trip Point:

Approx. 7500 PPM@ 25°C (factory adjustable)

Communication:

Intrinsically Safe Power Supplied by L&J 4-Wire Data Highway

Well Capability:

4" min

Temperature Range:

-40°C to 50°C

Approvals:

UL Listed

MCG 8165 Specifications

Easy Installation into a variety of tank types, 8 feet of field wiring, Reusable after detection

Operating Principle:

Solid State Vapor Absorption

Trip Point:

Approx. 7500 PPM@ 25°C (factory adjustable)

Communication:

Intrinsically Safe Power Supplied by L&J 4-Wire Data Highway

Enclosure Size:

1-5/16" Diameter. x 2" Height

Temperature Range:

-40°C to 50°C

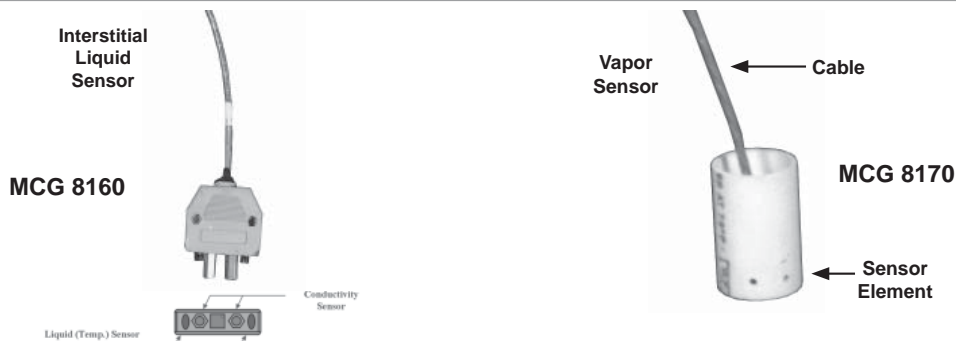
Well Capability:

Standard

Approvals:

UL Listed

Dimensions



All designs subject to change. Certified dimensions and specifications available upon request.