

Mining and the MSHA-approved MX6 iBrid™

**INDUSTRIAL
SCIENTIFIC**

Gas Detection Solutions



MX6 iBrid™
Multi-Gas Monitor

New U.S. federal mine regulations have revealed a growing number of applications for multi-gas instrumentation in underground mines. The legislation was enacted in early 2007 and requires every group of miners, or any miner working alone, to carry a multi-gas instrument capable of detecting oxygen (O₂), methane (CH₄) and carbon monoxide (CO). The MSHA-approved MX6 iBrid™ is the ideal solution for compliance.

An MX6 configured to detect carbon monoxide, oxygen and 0-5 percent methane with a catalytic bead sensor is ideal for everyday mining applications. Adding a nitrogen dioxide (NO₂) and nitric oxide (NO) sensor to the instrument makes the unit suitably configured for mines utilizing diesel powered equipment. The rugged, rubber overmolded construction, and the brightly backlit color liquid crystal display of the MX6 are uniquely suited for use in the harsh underground mine environment.

Alternatively, when the MX6 is configured with a pump and infrared methane sensor, the unit is equipped to meet the needs of new regulations requiring mine operators to regularly monitor the gas levels behind mine seals. The infrared sensor is capable of detecting high concentrations of methane in atmospheres void of oxygen. Operators can then verify that the atmosphere beyond the seal is in a safe, inert condition.

A high-range carbon monoxide sensor that will detect CO up to 9,999 PPM is also available. Adding this sensor to an MX6 configuration with methane, O₂ and a pump creates the ideal mine rescue monitor. The extended measuring ranges of these sensors allow mine rescue teams to accurately assess the conditions following a mine disaster. This is especially important when taking steps to return the mine to a safe condition before rescue teams can enter.



MX6 iBrid™ Multi-Gas Monitor attached to a miner.

The ability to configure the MX6 with sensors to meet the variety of mining applications allows mine operators to standardize on one instrument for all applications – minimizing training and maintenance requirements. Coupling the MX6 with the DS2 Docking Station™ for automatic test, calibration, data storage and documentation provides the complete system for fulfilling the strict requirements of the mining industry.

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