METHANE GAS DETECTION SYSTEMS

METHANE GAS DETECTOR
METHANE GAS DETECTION SENSORS
METHANE GAS DETECTION SYSTEM
METHANE SENSOR TEST KIT
SENSOR CABLES
**METHANE GAS DETECTOR**

Designed for “Green” Environmentally Friendly Alternative Fuel Vehicles

**METHANE GAS DETECTOR DISPLAY MONITOR** Model S2B-M-X-Display-D

**PRODUCT DESIGN** The stylish contemporary design of the Xintex Methane Gas Detector Monitor is ideal for installation into a dash, or similar panel. The 2 1/8” round housing, with 2 5/8” square bezel compliments the interior design of trucks and buses.

Advanced electronic circuitry utilizes our exclusive digital signal, eliminating the necessity of purchasing proprietary cabling to sensors and panels. Equipped with Deutsch Connectors, with heat shrink and boots. Installation at the factory or aftermarket provides cost savings, versus competitive models. Standard 18 gauge insulated wiring may be incorporated into wiring harness. All connections are through Deutsch Connectors for a plug and play installation, thus saving costs and time at the factory. Aftermarket installations are made easy as heavy bulky proprietary cabling is not required.

Optional Xintex wiring harness for sensors and remote status panels equipped with Deutsch Connectors are available at additional cost where desired.

**FEATURES**

- Two Zones: Cab and Engine Connect up to 2 Methane Gas Detection Sensors per zone, with Splitter01-D (sold separately)
- Easy view Colored L.E.D. ’s Green = System is okay and fully functional; Yellow = System fault; Red = Elevated Methane Level Detected
- Initial illumination at 20% of the L.E.L., and remains on, until a safe level is restored
- 1 amp Output relay opens at 50% of the L.E.L. (Horn optional or customer supplied)
- Membrane Style Test and Silence Buttons
- Test Button for weekly system testing
- Reset Button, silences alarm for 30 second intervals

**SPECIFICATIONS**

- Operational Voltage: 9-18 VDC
  Tested to ISO 7637-2
- Operating Temperature: -30C to 70C, -22F to 158F.
- Tested to ISO 600682.1, 2.2, 2.14
- Transient Voltage Tested to SAE J1113- 11/12, and ISO 11452-10
- Jump Testing to ISO 7637-2
- Reverse Voltage Tested to ISO 7637-2
- Vibration Testing to SAE J1455 Section 4.10
- Manufactured in Grand Rapids, Michigan, USA

**METHANE GAS DETECTION SYSTEM**

Model S2B-M-X-D-AA
- 1 - S2B-M-X-Display-D Methane Display Monitor
- 2 - MS-3-AL; Rugged Aluminum Methane Gas Detection Sensors
- 1 - Auxiliary 106dB Horn
- 1 - S2B Cable-001-D 12 VDC Power connection cable

**ADDITIONAL METHANE GAS DETECTION SYSTEMS**

Model S2B-M-X-D-AP
- 1 - S2B-M-X-Display-D Methane Display Monitor
- 1 - MS-3-AL; Rugged Aluminum Methane Gas Detection Sensor
- 1 - MS-3-D ABS Housing Methane Gas Detection Sensor
- 1 - Auxiliary 106dB Horn
- 1 - S2B Cable-001-D 12 VDC Power connection cable

Model S2B-M-X-D
- 1 - S2B-M-X-Display-D Methane Display Monitor
- 2 - MS-3-D ABS Housing Methane Gas Detection Sensors
- 1 - Auxiliary 106dB Horn
- 1 - S2B Cable-001-D 12 VDC Power connection cable
**COMMON FEATURES**
- Low power consumption
- High sensitivity to methane and natural gas
- Deutsch Connector - Plug & Play
- Xintex Methane Gas Detection Sensors are designed for specific reaction to elevated levels of methane and natural gas, while ignoring other hydrocarbons, thus insuring faster response time and elimination of false alarms due to sulfated batteries, asphalt fumes on recently paved roads, elevated gasoline fumes from neighboring parked trucks, etc.
- Due to the miniaturization of its sensing chip, Xintex Methane Sensors require a heater current of only 56mA
- Designed to satisfy the requirements of performance standards such as UL 1484 and EN50194
- Deutsch connector with boot and heat shrink
- All sensors are pre-conditioned in our temperature and humidity controlled rooms for a minimum of 7 days prior to final calibration processes

**COMMON SPECIFICATIONS**
- Operating voltage: 9 to 18 VDC
- Satisfies test requirements of:
  - J1455, Section 4.10 - Vibration Testing
  - J1113-11/12 and ISO 11452 for Transient Voltage Testing
  - IEC 60068-2-30 Humidity Testing; IEC 60068-2-14 Temperature Cyclic Testing
  - ISO 7637-2 Jump Start Test
  - ISO 7637-2 Reverse Protection Testing

**SENSOR SPECIFICATIONS**
Model MS-3-AL
- Operating Temperature: -30°C to 100°C
- Storage Temperature: -40°C to 135°C
- Operating Voltage: 9 to 18 VDC
- Waterproof ABS housing
- Ideal for all under hood installations

Model MS-3-D
- Operating Temperature: -30°C to 70°C
- Storage Temperature: -40°C to 80°C
- Operating Voltage: 9 to 18 VDC
- Waterproof ABS housing

**METHANE DETECTION SYSTEM**
Remote System Status Indicator Panels
When additional driver notification lights are desired to view Methane System Status from outside the cab. Applications include L.E.D. panels or L.E.D. panels in enclosures. The MRLE Series panels are in a metal enclosure with an adjustable mounting base.

**Model: MRLE-002-H**
- Green L.E.D. = System Okay
- Red L.E.D. = Elevated Methane Level
- 106dB Horn: Sounds at 50% of the L.E.L.
- Without enclosure (Model MRLP-002-H)
- Optional Connecting Cable (Connects Panel to Display)
- Model S2B Cable -003D

**Model: MRLP-002**
- Green L.E.D. = System Okay
- Red L.E.D. = Elevated Methane Level
- With enclosure (Model MRLE-002)
- Optional Connecting Cable-Connects Panel to Display with Horn (Connects panel to display)
- Model S2B Cable -002D

**Adjustable Mounting Base**
A Complete Methane Sensor Kit for Field Testing of Methane Sensors

Designed to accurately and quickly test Methane Sensors for reaction to elevated methane levels, with convenient rugged polycarbonate storage case.

**KIT CONTAINS**
- 2-34 L calibrated methane gas test cylinders
- .25 L/minute pressure regulator and gauge
- Testing Instruction on inside of case
- Xintex branded Methane Sensor testing adapter
- Connecting hose (from regulator to test adapter)
- Rugged Polycarbonate storage case

**Model: MTK-20-50**
1-20% of the L.E.L. and 1-50% of the L.E.L. Methane Gas Cylinder

**Model: MTK-25-50**
1-25% of the L.E.L. and 1-50% of the L.E.L. Methane Gas Cylinder

The State of California mandates testing of the methane sensor at least three times a year, at equal intervals. Title X111, California Code of Regulations, (13 CCR) Section 935 (b)(2)

**SENSOR CABLES**

Model: **Splitter01-D**
- Connects to display panel to permit one additional sensor
- Required when adding an additional Methane Sensor per zone.
  Equipped with Deutsch Connectors, with heat shrink and boots over connectors for trouble free installations.

Optional Connecting Cables
- Not Required with Xintex System
- Sensor Extension Cable Plug and Play from Display to Sensor
- Standard Length Models:
  - MS-3-D Cable 5’; MS-3-D Cable 10’; MS-3-D Cable 15’; MS-3-D Cable 20’;
  - MS-3-D Cable 25’; MS-3-D Cable 30’; MS-3-D Cable 35’; MS-3-D Cable 40’;
  - MS-3-D Cable 45’

The Xintex Methane Detection Systems meet the requirements of N.F.P.A. 52; SAE J2343, and California Title XIII.

Fireboy-Xintex.com . fireboy@fireboy.xintex.com . 616.735.9380 . 0-379 Lake Michigan Drive . Grand Rapids, Michigan 49534