



Propane Fume Detection System

Single Channel Systems

P-1B-R (Black, Round)

P-1C-R (Chrome, Round)

Owner's Manual & Installation Instructions

Read and comply with all instructions, warnings and limitations before installing, servicing or removing this device.

Additional copies of this manual are available at no charge by contacting the manufacturer, distributor or dealer. Fireboy-Xintex reserves the right to change features without notice.

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General Information

WARNING

PROPANE FUME DETECTORS ARE MEANT TO SERVE AS A SUPPLEMENTAL WARNING SYSTEM. IT IS NOT MEANT TO REPLACE STANDARD SAFETY PRACTICES WHICH SHOULD BE CARRIED OUT AROUND EXPLOSIVE GASES.

The P-1B-R and P-1C-R Propane Fume Detectors are an effective means to monitor propane fumes in a compartment or leaking fuel systems. The system uses a sensor, located in a place of interest, and a central display unit that notifies you of the state of the system.

Specification

System Specifications (P-1B-R/P-1C-R)

Operating Voltage: 9-30 VDC

Nominal Current Draw: 55mA @ 12 VDC

Maximum Current Draw: 95mA @ 9 VDC

Operating Temperature: -40°F (-40°C) to 185°F (85°C)

Alarm Horn: ≈ 68dB

Operation of Xintex Propane Fume Detector(s)

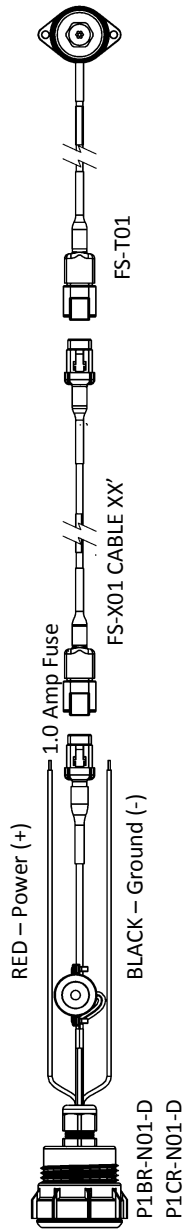
There are 3 LEDs located on the Display Unit for each channel on the system. The Green LED, located at the top, indicates that the system is operational. The Yellow LED, located in the center, indicates that there is a Fault in the system. This is to notify the user to check the connections and wire runs of the sensors. There may be a break in the wiring or a disconnected sensor on that channel. The Red LED, located at the bottom, indicates a fume buildup of 20% of the LEL (Lower Explosive Limit) which is considered an alarm. The alarm horn will sound when the Red LED is illuminated.



P1BR-N01-D

P1CR-N01-D

The alarm status will continue as long as the fume level remains at an elevated level. The alarm horn may be silenced by pressing the "Check/Reset" button. The alarm will reactivate after 30 seconds as long as the Detector remains in alarm status. The problem should never be considered corrected as long as the Red LED is illuminated.



Installation

Installing the Display Unit (P1BR-N01-D/P1CR-N01-D)

The Display Unit should be located at the instrument panel, so that the visible and audible indicators may be easily observed.

Drill a 2-1/16" hole to accommodate the P1BR-N01-D/P1CR-N01-D Display Unit.

Insert Display Unit into hole and secure with the provided threaded mounting nut.

NOTE

DO NOT MAKE ELECTRICAL CONNECTIONS AT THIS TIME. THEY WILL BE ADDRESSED IN A LATER SECTION.

Routing Sensor Cable(s) (FS-X01 CABLE XX')

A 20 FT Sensor Cable is provided for each Propane Fume Sensor. The Sensor Cables should be routed starting at the Display Unit, then to the pre-determined location of the Propane Fume Sensor. Connect to the Display Unit using the attached quick-disconnect connectors. Take care not to pinch, break, or cut the Sensor Cable or put too much stress on the connectors while routing the cable. Secure the Sensor Cable with the appropriate hardware for the application.

NOTE

DO NOT CUT EXTENSION CABLE FOR ANY PURPOSE. DOING SO VOIDS THE PRODUCTS WARRANTY. LONGER CABLES ARE AVAILABLE FROM 20 FT TO 100 FT.

Installing Propane Fume Sensor(s) (FS-T01)

The Propane Fume Sensor should be located by the propane powered appliance, near the floor. Avoid areas where damage may take place due to cleaning, mopping, kicking, or other physical damage. Harsh chemicals should not be used to clean sensors.

Use the appropriate #8 mounting hardware to mount the Propane Fume Sensor in the desired location. The rubber gasket should be installed between the sensor and the mounting surface.

Connect to the Extension Cable using the attached quick-disconnect connectors.

Installation Continued

Electrical Connections (P1BR-N01-D/P1CR-N01-D)

The Display Unit operates on 9-30 VDC. A Red and a Black 16 GA wire are provided for connecting to the power source. Connect the Red wire to Power (+) with an inline 1.0 Amp fuse. Connect the Black wire to Ground (-).

NOTE

IMPROPER CONNECTIONS WILL DAMAGE THE DISPLAY UNIT AND WILL VOID WARRANTY.

Testing the System Operation

The Propane Fume Detectors can be tested by pressing the “Check/Reset” button on the face of the Display Unit. The Display Unit will cycle through the LEDs and the alarm horn will activate while the LEDs cycle.

Unplug the Propane Fume Sensor from each channel of the Detection System. The Yellow “Fault” LED should illuminate. If the Yellow LED does not illuminate, remove Display Unit and return direct to manufacturer following the instructions at the back of this manual.

Testing the Propane Fume Sensors

WARNING

DO NOT USE A PROPANE SOAKED RAG OR A PARTIALLY FULL CONTAINER OF PROPANE TO TEST A SENSOR. THE RAW PROPANE COULD IGNITE, RESULTING IN SERIOUS INJURY.

Test the Sensors by holding a Butane lighter to the sensor. Within a few seconds, the Red “Danger” LED should illuminate and the alarm horn will sound. Remove the lighter from the Sensor and mute the alarm horn. After approximately one minute, the Red LED will shut off.

Maintenance

The system should be tested periodically in the fashion described in the previous sections. Due to the harsh environmental conditions in marine applications, it is recommended to replace the Propane Fume Sensors every 3-4 years.

In the Event of an Alarm

Immediately have all passengers and crew exit the passenger compartment and vessel if possible.

Ventilate the space being monitored.

Carefully check all fuel lines and other potential sources of propane fume leaks. If leaks are identified, shut off fuel supply and make any necessary repairs.

Repairing Xintex Propane Fume Detection Components

Xintex Propane Fume Detection Components are not field serviceable. Components must be returned to the factory for any repairs.

Returning Xintex Propane Detection Components

No product may be returned for credit or repair without a written "Returned Material Authorization" (RMA) form. Purchaser must call or email Fireboy-Xintex 616-735-9380 or fireboy@fireboy-xintex.com for a RMA. If due to extenuating circumstances a product is to be returned, after approval it must be received in 100% new/resalable condition. Products stored by the buyer for more than 26 weeks may not be returned for any reason. Maintaining fresh and current inventory is the responsibility of the buyer.

1 Year Limited Warranty

This Warranty is in lieu of all other expressed or implied Warranties

Seller warrants title, materials, and workmanship on equipment, except components manufactured by others for which the Seller assigns, as permitted, the original manufacturer's warranty. Seller's warranty shall be for a period of (1) one year from the date of sale to the ORIGINAL CONSUMER PURCHASER, during which non-conforming equipment returned to the Seller at Buyer's expense and risk, be repaired or replaced at the Seller's option. Fireboy-Xintex, Inc. will repair or replace products found to be defective in materials or workmanship within the period set forth above, provided that: (a) the product has not been subjected to abuse, contamination, neglect, accident, incorrect wiring not our own, improper installation or servicing, or used in violation of instructions furnished by Fireboy-Xintex, Inc. and (b) as to any prior defects in materials or workmanship covered by this warranty, the product has not been repaired or altered by anyone except Fireboy-Xintex, Inc and (c) the serial number has not been removed, defaced or otherwise changed, and (d) examination discloses, in the judgment of Fireboy-Xintex, Inc., does not assume the costs of removal and/or installation of the product or any other incidental costs of removal and/or installation of the product or any other incidental costs which may arise as a result of any defect in material or workmanship, and (e) upon discovery of defect, Buyer shall immediately cease use of and notify Fireboy-Xintex, Inc.

Any warranty implied by law, including warranties of merchantability or fitness, is in effect only for the duration of the expressed warranties set forth above, no person is authorized to give any other warranty, or to assume for Fireboy-Xintex, Inc. any other liability in connection with the sale of its products; Fireboy-Xintex, Inc. shall not be liable for the loss of use, revenue, or profit or for any injury, or for any other consequential or incidental damages, buyer is not relying on seller's judgment regarding his or her particular requirements, and has had an opportunity to inspect the product to his or her satisfaction.

This warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state.

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