

PERSONAL SAFETY

Air Quality Portable H₂S Sensor

Model IO-203

FEATURES

- Vibrating Alarm
- Flashing LED Alarm
- Audible Alarm
- Fully Portable
- Light Weight
- Field Proven Results
- In-Line Gas Analysis Adaptor
- Electrochemical Sensor



SPECIFICATIONS

System Power: 3.0 Volt DC Lithium 123 with low battery indicator LOB

Battery Life: 1 Year (Estimated) Alarm Dependent

System Weight: 6.0 oz / 171 Grams

Dimensions: 3.4"L x 2.25"W x 1.0"D

Display: Digital Three Position

Display Range - H₂S: 0 to 255 ppm

Enclosure: High Impact ABS

Alarms: Low – Flashing LED

High – Beeper

Danger – Vibrator

Alarm Set Points: Individually set from 1 to 99 ppm

Note: 0 Setting equals Alarm off

Calibration Gas Value: Any H₂S Gas Valve up to 50 ppm

Electrochemical Sensor: 2-Year life

Additional Gases Available Upon Request

Description & Principle of Operation

The H₂S personal safety monitor is a rugged microprocessor based personal safety instrument designed for situations where toxic H₂S gas hazards exist. The H₂S personal safety monitor displays the alarm status for the concentration of the gas detected in **PPM** on a highly visible, three-digit display. The unit is extremely light weight (6.0 ounces) and is suitable for confined space compliance, gas, and wastewater treatment facilities, refineries, pulp and paper mills, and a host of other industrial applications. The unit runs approximately 600 hours (nominal) on a standard 9-volt alkaline battery and is equipped with a loud audible, visual and vibrating alarm for areas with high background noise. The digital display shows "cal" when the unit requires service between the normal calibration cycle and "LOB" when the battery needs to be replaced. Calibration is recommended monthly to insure proper operation. A strong clip is provided to fasten the unit to a pocket, hardhat or belt. The low cost of the Model IO-203 and the limited warranties make this one the best-valued, most reliable compliance tool on the market.



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PERSONAL SAFETY

Identify H₂S Leaks

H₂S Leak Check

APPLICATION

For leak detection use and identification of H₂S in refineries, and other areas where H₂S threatens the ambient air.



Weighs Just 0.5 Ounces



Identify H₂S Leaks

FEATURES

- Consistent Quality
- Full Warranty
- Easily Used
- Cost Effective
- Custom Lengths

Description & Principle of Operation

The H₂S sensing tape, which is the base of operation of the H₂S Identifier, is prepared by impregnating lead acetate and other essential components (both inert and active) into the paper tape. This formula, the treating process and ambient conditions are all critical to the success of the manufacturing process. After completion of this process, the sensing tape is ready for H₂S leak identification. When the H₂S comes in contact with the lead acetate-treated tape, lead sulfide is formed $H_2S + Pb + H_2O = PbS$. This reaction gradually darkens the tape according to H₂S concentration. The resulting darkening is detected by photocells and is proportional to the H₂S concentration. Darkening positively identifies the presence of H₂S only. The tape has no interferences with other components. For further information, please refer to chemistry textbooks, and to various ASTM publications.



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