651 Hydrogen Sulfide Monitoring System

RUGGED FENCE-LINE HYDROGEN SULFIDE MONITORING

Heavy duty, reliable and versatile hydrogen sulfide monitoring—the Jerome® 651 monitoring system from AMETEK Arizona Instrument is designed to provide long-term, continuous monitoring even in rough weather conditions. Stationed on a pole, fence or wall, multiple units can be linked to form a perimeter monitoring system. The detachable, hand-held analyzer within the unit can be used to sweep an area and help pinpoint the source of a hydrogen sulfide leak or hot spot.

JEROME®

BROOKFIELD AMETEK®

651 Hydrogen Sulfide Monitoring System

Hydrogen sulfide analysis for a wide range of applications.

FEATURES

PERIMETER MONITORING: Multiple Jerome® 651 units can be linked to form a perimeter monitoring system to help locate the source of H_2S and ensure safety and compliance.

DETACHABLE UNIT: Quickly and easily sweep an area for hydrogen sulfide hot spots with the detachable, hand-held Jerome® 631-X hydrogen sulfide analyzer.

GOLD FILM SENSOR: Validated in the field and in the lab for over 35 years, our proprietary gold film sensor ensures repeatable results across a wide range of applications.

WEATHER STATION: The attached weather station monitors outside temperature as well as wind speed and direction for increased accuracy in pinpointing the source of odor contamination.

DATA TRANSMISSION: Advanced data logging and radio telemetry capabilities make downloading data to a remote PC easy and convenient.

PC SOFTWARE: Intuitive PC software with user selectable time-weighted average reporting and a site view tab give users a bird's eye view of the monitoring system as a whole.

PROGRAMMABLE ALARMS: The 651 comes with programmable alarms that automatically send email alerts if H_2S levels rise above your specified upper limit.

TEMPERATURE CONTROLLED INTERIOR: Resistive heating and thermœlectric cooling keep the interior of the 651 at a consistent temperature for increased accuracy.

REGULATORY COMPLIANCE: The 651 is in active use by many regulatory agencies and landfill, water treatment and wastewater management facilities across the world.

SPECIFICATIONS

Detection Range	3 ppb (0.003 ppm) to 50 ppm
Resolution	0.001, 0.01, 0.1, and 1 ppm
Accuracy	±0.005 ppm at 0.05 ppm ±0.05 ppm at 0.5 ppm ±0.5 ppm at 5 ppm ±2 ppm at 25 ppm
Sample Intervals	1, 2, 5, 10, 15, 30, 60 or 120 minutes
Regeneration Intervals	6, 12, 24 and 48 hours
Flow Rate	150 mL/min
Operating Environment	-40°C to 55°C, non-explosive, 0-100% RH
Result Units	ppm, ppb
Data Storage Capacity	50,000 test results
Power Requirements (651 Unit)	100-120 VAC, 50/60 Hz, 7A or 210-240 VAC, 50/60 Hz, 4A
Control Board Fuse	Fast-acting IEC 1.6A 250V, 5 mm x 20 mm
Case Construction	Polyester with insulation to reduce heat transfer
Battery (Detached 631-X Unit)	Rechargeable NiCad 6 hour life
Estimated Sensor Life	3 to 6 months depending on operating conditions
Display	8 digit alphanumeric LCD
Output	Spectra Radio Analog: 4-20 mA passive current loop
Dimensions	26" W x 25" H x 9" D (67 cm W x 64 cm H x 23 cm D)
Weight	52 lbs. (24 kg)
Warranty	1 year, factory parts and labor except for 631-X sensor

RADIO MODEM SPECIFICATIONS

Frequency	2.4-2.4835 GHz (2400 MHz) 49 selectable channels
Serial Interface	RS-232
Power Requirement	10-30 VDC, 450 mA
Operating Temperature	-40°C to 75°C
Range	Up to 6.4 km (4 mile) "line of sight" Longer distances may be obtainable through use of a high gain antenna or by using the optional Radio Repeater

BROOKFIELD AMETEK® JEROME®

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