

Environmental Monitoring Equipment

Wall (Panel) Mount Type Odor Monitor

V-819

Detection Principle



Hot wire semiconductor sensor



Thin film semiconductor sensor

Type of Gas Detected



Odor



Toxic gas



Detector head



Indicator/Alarm unit
(photo: 3-point type)

* Refer to P.6 (V-810) for dimensions.

Features

- Our original metal oxide odor sensors detect target odors with high sensitivity.
- Achieved continuous monitoring, which was impossible with sensory evaluation or instrumental analysis.
- You can freely create a monitoring system according to the number of detector heads you need.
- Equipped with an external output terminal which allows continuous recording.
- Equipped with a 50-dot bar-graph meter which indicates the odor level in real time.

Uses

- Odor monitoring at site boundaries of various factories
- Indoor environmental monitoring
- Inside-equipment odor monitoring
- Odor control at exhaust ports of various factories
- Performance control of deodorizing equipment and air cleaners

Specifications

Model	V-819 (3-point type to 12-point type)	
Gas Detected	Various fragrance/odor component	Mainly hydrogen sulfide odor
Detection Principle	High sensitive tin oxide hot wire sintered semiconductor sensor	Supersensitive zinc oxide substrate thin film semiconductor sensor
Indicator	LCD bar graph (0-10 scale, no unit, 50 dots) with backlight	
Sampling Method	Diffusion type (Non-explosion-proof)	
Alarm Set Value	Adjustable	
Alarm Indication	Odor level alarm	Indicator Unit Alarm lamp (red) flashes (Lights up after Reset) Alarm Unit Lights up red and buzzer sounds intermittently on alarm from at least one indicator unit (Buzzer stops after Reset)
	Trouble alarm	Power lamp (green) goes out (Automatic recovery) Alarm Unit Lights up red and buzzer sounds continuously on trouble with at least one indicator unit (Buzzer stops after Reset) * Automatic recovery type is standard for the alarm indication of the indicator units and alarm units.
Contact Output	Indicator unit (individual alarm): Alarm (1a) 1A@100V AC (resistance load) Alarm unit (collective alarm): Alarm (1c) 1A@100V AC (resistance load) Trouble (1a), Buzzer (1a)	
External Output	4-20mA (Input resistance: 500 Ω or lower)	
Operating Temperature Range	-10°C to 40°C	
Power Source	100V AC±10%, 50/60Hz	
Power Consumption	(25+5×n)VA (n is the number of the detection points)	
Installation	Wall mount (or Panel mount)	
Applicable Cable	CVVS of 1.25-2.00mm ² , 3C (Cable resistance: one way resistance of 10Ω or lower)	
Exterior Color	Munsell N8.0 (Indicator/Alarm unit)	Munsell N7.0 (Detector head)
Options	Rainproof cover (KW-14A)	