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MULTI-GAS MONITORS

Portable Gas Monitors

Oxygen/Carbon monoxide (for oxygen deficiency, toxic prevention)

MMP-10 (for personal use/diffusion type)

The MMP-10 O₂/CO monitor detects Carbon monoxide produced by the incomplete combustion in steel mills, refineries, utilities and generators installed in culvert and alerts workers to dangerous levels of Carbon monoxide to prevent from CO poisoning.

It also detects Oxygen concentration to alert of danger to prevent from oxygen deficiency.

- Point** ■ Buzzer and lamp alert when reached dangerous concentration.
- Compact size to fit to a belt or pocket for hands-free work.
- Power saving function for long time operation.
- Structure to prevent water and dust go in the sensor.
- Remote detection with an optional adaptor and 5 metre length sensor cord.



Sensor cord assembly
(adaptor included, optional)



Oxygen/Hydrogen sulphide (for oxygen deficiency, toxic prevention)

MMP-12 (for personal use/diffusion type)

The MMP-12 O₂/H₂S monitor detects Hydrogen sulphide from sapropel or decay of organic matter produced at sewer, human-waste treatment plant, pulp mill or waste disposal centres, or Hydrogen sulphide produced at volcanos and spas, and alerts workers to dangerous levels of Hydrogen sulphide to prevent from hydrogen sulphide poisoning.

It also detects Oxygen concentration to alert of danger to prevent from oxygen deficiency.



Sensor cord assembly
(adaptor included, optional)



Specification

Model	MMP-10		MMP-12	
Measuring gas	Oxygen	Carbon monoxide	Oxygen	Hydrogen sulphide
Detection method	Galvanic cell	Chronoamperometry	Galvanic cell	Chronoamperometry
Sampling method	Diffusion type			
Measuring range	0.0~50.0vol%	0~500ppm	0.0~50.0vol%	0~50ppm
Resolution	0.1vol%	1ppm	0.1vol%	0.1ppm
Detectable accuracy	0~25.0vol%:±0.5vol% Above 25.1vol%:±3.0vol%	0~100ppm:±10ppm Above 101ppm:±10% of indicated value	0~25.0vol%:±0.5vol% Above 25.1vol%:±3.0vol%	0~30ppm:±1.5ppm Above 30.1ppm:±3ppm
Alarm concentration	Below 18.0vol%	LOW: 50ppm HIGH:150ppm	Below 18.0vol%	LOW: 10ppm HIGH:30ppm
Alarm method	LCD display · LED lamp · buzzer			
Response time	Within 15 seconds at 90% response	Within 25 seconds at 90% response	Within 15 seconds at 90% response	Within 25 seconds at 90% response
Power supply	3×AAA size alkaline dry battery			
Continuous operating time	Approx. 800 hours			
Explosion-proof	—		Exia II CT4 (No.TC19102)	
Operating temperature	-10~40°C; 30~85%RH (non-condensing)			
Dimensions	106 (W)×56 (H)×29 (D)mm			
Weight	Approx. 180g			
Standard accessory	Softcase			

MULTI-GAS MONITORS

O₂, CO, H₂S, COMBUSTIBLE GAS

Portable Gas Monitors

Oxygen/Carbon monoxide (for oxygen deficiency, toxic prevention)

MD-611E (suction type)

The MD-611E O₂/CO monitor detects Carbon monoxide produced by the incomplete combustion in steel mills, refineries, utilities and generators installed in culvert and alerts workers to dangerous levels of Carbon monoxide to prevent from CO poisoning. It also detects Oxygen concentration to alert of danger to prevent from oxygen deficiency.

Oxygen/Hydrogen sulphide (for oxygen deficiency, toxic prevention)

MD-612E (suction type)

The MD-612E O₂/H₂S monitor detects Hydrogen sulphide from sapropel or decay of organic matter produced at sewer, human-waster treatment plant, pulp mill or waste disposal centers, or Hydrogen sulphide produced at volcanos and spas, and alerts of danger to protect workers from hydrogen sulphide poisoning.

It also detects Oxygen concentration to alert of danger to prevent from oxygen deficiency.

· Certified to Nippon Kaiji Kyokai (NK) type test

Oxygen/Combustible gas (for oxygen deficiency, explosion prevention)

MD-620E (suction type)

The MD-620E O₂/Combustible gas monitor detects Oxygen and Combustible gases before entering to places where irrespirable atmospheres or Combustible gas could be blew out or produced, and alerts of danger to prevent from oxygen deficiency and carbon monoxide poisoning.

Point

- Delivers gas alarm and/or trouble with loud sound (above 90dB/10 cm).
- Delivers alarm with bright LED flickers, in operation (GREEN), alarm (RED), trouble (ORANGE).
- Large LCD display for easy reading.
- Powerful suction pump, fast response time.
- Approval of intrinsically safe apparatus.

· Certified to Nippon Kaiji Kyokai (NK) type test



Specification

Model	MD-611E		MD-612E		MD-620E	
Measuring gas	Oxygen	Carbon monoxide	Oxygen	Hydrogen sulphide	Oxygen	Combustible gas in the air
Detection method	Galvanic cell	Chronoamperometry	Galvanic cell	Chronoamperometry	Galvanic cell	Catalytic combustion
Sampling method	Suction type (approx. 0.6L/min with 5m gas sampling hose)					
Measuring range	0.0~50.0vol%	0~500ppm	0.0~50.0vol%	0.0~50.0ppm	0.0~50.0%	0.0~100%LEL (※)
Resolution	0.1vol%	1ppm	0.1vol%	0.1ppm	0.1vol%	1%LEL
Detectable accuracy	0.0~25.0vol%:±0.5vol% Above 25.1vol%:±3.0vol%	Below 100ppm:±10ppm Above 100ppm:±10% of indicated value	0.0~25.0vol%:±0.5vol% Above 25.1vol%:±3.0vol%	Below 30.0ppm:±1.5ppm Above 30.1ppm:±3.0ppm	0.0~25.0vol%:±0.5vol% Above 25.1vol%:±3.0vol%	±10%LEL
Alarm accuracy	±0.5vol% against alarm setting value 18.0vol%	Below 100ppm:±10ppm Above 100ppm:±10% of indicated value	±0.5vol% against alarm setting value 18.0vol%	Below 30.0ppm:±1.5ppm Above 30.1ppm:±3.0ppm	±0.5vol% against alarm setting value 18.0vol%	±10%LEL
Alarm setting value	18.0vol%	ALM1 50ppm ALM2 100ppm	18.0vol%	ALM1 10.0ppm ALM2 20.0ppm	18.0vol%	20%LEL
Alarm method	LED lamp, LCD, buzzer alarm					
Response time	Within 15 seconds at 90% response	Within 25 seconds at 90% response	Within 15 seconds at 90% response	Within 25 seconds at 90% response	Within 15 seconds at 90% response	Within 25 seconds at 90% response
Power supply	from sampling gas inlet at 20°C 3xsize AA Alkaline dry battery (LR6)					
Continuous operation time	Approx. 16 hours (no alarm)				Approx. 8 hours (no alarm)	
Explosion-proof	Exia II CT4X (No.TC19531)				Exiad II CT4X (No.TC19587)	
Operating temperature	-10~40°C; 30~85%RH (non-condensing)				-10~40°C; below 95%RH (non-condensing)	
Pressure range	80~110kPa					
Dimensions	78 (W)×200 (H)×50 (D)mm					
Weight	Approx. 550g (including batteries)					
Standard accessories	Gas sampling hose with float type gas collector (5m), leather case, carrying case					

※%LEL=Concentration of Combustible gases (%)÷ Lower Explosive Limit(%)×100 refer to page 4

MULTI-GAS MONITORS

Portable Gas Monitors

Oxygen/Combustible gas/Hydrogen sulphide

MD-801 (suction type)

Point

- Simultaneous measurement of O₂, Combustible gas and H₂S.
- Auto span calibration of O₂ sensor, auto zero adjustment of combustible gas and H₂S sensors and battery capacity check when power is switched on.
- 2 power supply (alkaline dry batteries/AC 100V).
- A data logger function for trend analysis.
- Built-in water sensor for fast suction stop.

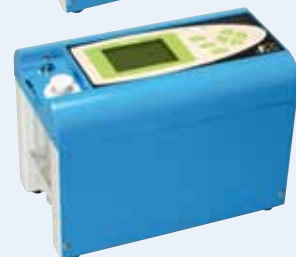
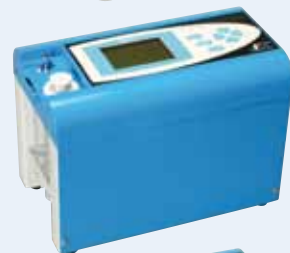


Oxygen/Combustible gas/Carbon monoxide

MD-811 (suction type)

Point

- Simultaneous measurement of O₂, Combustible gas and CO.
- Auto span calibration of O₂ sensor, auto zero adjustment of combustible gas and CO sensors and battery capacity check when power is switched on.
- 2 power supply (alkaline dry batteries/AC 100V).
- A data logger function for trend analysis.
- Built-in water sensor for fast suction stop.



Oxygen/Combustible gas/Hydrogen sulphide/Carbon monoxide

MD-940 (suction type)

Specification

Model	MD-801			MD-811		
Measuring gas	Oxygen	Combustible gas	Hydrogen sulphide	Oxygen	Combustible gas	Carbon monoxide
Detection method	Galvanic cell	Catalytic combustion	Chronoamperometry	Galvanic cell	Catalytic combustion	Chronoamperometry
Sampling method	Suction type					
Measuring range	0.0~50.0vol%	0~100%LEL (※)	0.0~50.0ppm	0.0~50.0vol%	0~100%LEL (※)	0~300ppm
Resolution	0.1vol%	1%LEL	0.1ppm	0.1vol%	1%LEL	1ppm
Detectable accuracy	Below 25.0vol%:±0.5vol% Above 25.1vol%:±3.0vol%	±10%LEL	Below 30ppm:±1.5ppm Above 30.1ppm:±10% of indicated value	Below 25.0vol%:±0.5vol% Above 25.1vol%:±3.0vol%	±10%LEL	Below 100ppm:±10ppm Above 101ppm:±10% of indicated value
Alarm concentration	Below 18.0vol%	20%LEL	10.0ppm	Below 18.0vol%	20%LEL	50ppm
Alarm method	Alarm operation: LCD-LED lamp-buzzer					
Response time	Within 25 seconds at 90% response (without gas sampling tube)					
Power supply	4xD size alkaline dry battery / AC 100V (used with adaptor)					
Continuous operation time	Approx. 35 hours with alkaline dry batteries					
Operating temperature	-10~40°C; 30~85%RH (non-condensing)					
Dimensions	230 (W)×165 (H)×130 (D)mm					
Weight	Approx. 2.8kg (including batteries and sensors)					
Standard accessory	Gas sampling tube with float type gas collector (8m), carrying case					

Model	MD-940			
Measuring gas	Oxygen	Combustible gas	Hydrogen sulphide	Carbon monoxide
Detection method	Galvanic cell	Catalytic combustion	Chronoamperometry	Chronoamperometry
Sampling method	Suction type			
Measuring range	0.0~50.0vol%	0~100%LEL (※)	0.0~50.0ppm	0~300ppm
Resolution	0.1vol%	1%LEL	0.1ppm	1ppm
Detectable accuracy	Below 25.0vol%:±0.5vol% Above 25.1vol%:±3.0vol%	±10%LEL	Below 30ppm:±1.5ppm Above 30.1ppm:±10% of indicated value	Below 100ppm:±10ppm Above 101ppm:±10% of indicated value
Alarm concentration	Below 18.0vol%	20%LEL	10ppm	50ppm
Alarm method	Alarm operation: LCD-LED lamp-buzzer			
Response time	Within 25 seconds at 90% response (without gas sampling tube)			
Power supply	4xD size alkaline dry battery / AC 100V (used with adaptor)			
Continuous operation time	Approx. 35 hours with alkaline dry batteries			
Operating temperature	-10~40°C; 30~85%RH (non-condensing)			
Dimensions	230 (W)×165 (H)×130 (D)mm			
Weight	Approx. 2.8kg (including batteries and sensors)			
Standard accessory	Gas sampling tube with float type gas collector (8m), carrying case			

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