

GX-2012 / GX 2012 GT

Pumped Multi Gas Monitor

The GX 2012 Pumped Multi Gas Monitor 1-5 sensors is an excellent solution where a handy lightweight 1-5 gas detector with built in pump is needed. The GX 2012 has a strong built-in pump and is available in two versions; standard and gas trace. This makes the instrument suitable for enclosed space entry, personal protection and leak checking.

Product description

The GX 2012 allows users to monitor up to 5 gases. In addition to the standard 4 gases which include combustibles, O₂, CO, & H₂S, the instrument has 1 additional channel that accepts % VOL CH₄ or ppm CH₄ sensors.

The instrument has a large LCD display that shows all gas readings, battery level and time. The screen will automatically back-light in alarm conditions. The GX-2012 has a strong internal pump with many possible sensor combinations. The instrument can interchangeably operate on either a Li-Ion battery pack or an alkaline battery pack.

Calibration and maintenance is easy, and calibration and bump test intervals are user-adjustable.



Features

- ✓ Real-time, simultaneous detection of up to 6 gases:
- ✓ Combustibles catalytic %LEL (CH₄)
- ✓ Combustibles TCD % VOL (CH₄)
- ✓ Combustibles MOS ppm (CH₄)
- ✓ Large display with auto backlighting
- ✓ Strong sample pump (15m)
- ✓ Loud 95dB alarm buzzer
- ✓ 3 bright LED alarm windows
- ✓ Intrinsically Safe ATEX Exia II CT4 approved
- ✓ Lithium-ion rechargeable or alkaline battery
- ✓ Compact, lightweight, ergonomic design
- ✓ Data logging as standard

Applications

- ✓ Personal monitoring
- ✓ Refineries/Petrochemical
- ✓ Wastewater treatment
- ✓ Confined space
- ✓ Leak check
- ✓ Chemical plants
- ✓ Hazardous material
- ✓ Water
- ✓ Fire service
- ✓ Mining

Technical specifications

GX-2012					
Gas Detected	Combustible Gases (Methane as standard)	% Volume Methane	Oxygen (O ₂)	Hydrogen Sulfide (H ₂ S)	Carbon Monoxide (CO)
Detection Principle	Catalytic combustion	Thermal conductivity	Galvanic cell	Electro-chemical cell	
Detection Range	0 ~ 100% LEL	0 ~ 100% Vol.	0 ~ 40% Vol.	0 ~ 100 ppm	0 ~ 500 ppm
Sampling Method	Internal sample pump, flow rate nominal 0.5 LPM, includes hydrophobic filter				
Display	Digital LCD with 7 segments, auto backlight during alarm				
Preset Alarms (User Adjustable)	1st alarm 10% LEL 2nd alarm 50% LEL Over alarm 100% LEL	No alarms for % Vol. CH ₄	Low alarm 19.5% High alarm 23.5% Over alarm 40.0%	1st 5 ppm 2nd 30 ppm TWA 10 ppm STEL 15 ppm Over 100 ppm	1st 25 ppm 2nd 50 ppm TWA 25 ppm STEL 200 ppm Over 500 ppm

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Gas Detected	Combustible Gases (Methane as standard)	% Volume Methane	Oxygen (O ₂)	Hydrogen Sulfide (H ₂ S)	Carbon Monoxide (CO)
Detection Principle	Catalytic combustion	Thermal conductivity	MOS/Catalytic	Galvanic cell	
Detection Range	0 ~ 100% LEL	0 ~ 100% Vol.	0 ~ 5000 ppm	0 ~ 40% Vol.	0 ~ 500 ppm
Sampling Method	Internal sample pump, flow rate nominal 0.5 LPM, includes hydrophobic filter				
Display	Digital LCD with 7 segments, auto backlight during alarm				
Preset Alarms (User Adjustable)	1st alarm 10% LEL 2nd alarm 50% LEL Over alarm 100% LEL	No alarms for % Vol. CH ₄	Increasing tone/ Light pulse as concentration increases	Low alarm 19.5% High alarm 23.5% Over alarm 40.0%	1st 25 ppm 2nd 50 ppm TWA 25 ppm STEL 200 ppm Over 500 ppm

Alarms Types	Leak Tracker Mode: Escalating audible/visual alarm, changes with gas level (audible can be turned off) Gas alarms: 1st and 2nd, STEL, TWA (user adjustable) and OVER Trouble alarms: Sensor connection, low battery, low flow, circuit trouble and calibration error
Alarm Methods	Gas alarms: Flashing lights, two tone buzzer, and vibration Trouble alarms: Flashing lights, trouble displayed, intermittent buzzer, and vibration
Operating Temp. & Humidity	-20°C to +50°C (-4°F to 122°F) 0 to 95% RH, non-condensing
Response Time	Within 30 seconds (T90)
Continuous Operation	Alkaline battery: 15 hours Li-Ion battery: 10 hours
Power Source	Li-Ion battery pack, or 3 "AA" Alkaline battery pack; interchangeable
Safety Rating	ATEX, TIIS, IECEx and CE
Dimension & Weight	Approx. 173 (H) x 71 (W) x 43 (D) mm, approx. 360 g (include 3 "AA" Alkaline batteries)
Standard Accessories	• Belt clip • Rubber nozzle • Wrist strap • Manual • Alkaline battery pack
Optional Accessories	• SDM-2012 calibration stations • Sample draw hoses • Charger • Li-Ion battery pack • Alkaline dry cell (3-AA size) • Datalogging software

The Bruusgaard System



TBS is a unique turnkey portable gas detection solution, giving you increased safety and substantial cost savings through standardised instruments, routines, training and procurement.

Logistic Support

At any given time we know the status of all vessels and sites covered by The Bruusgaard System. We consolidate all shipments and make sure you have everything you need on board until next scheduled delivery. This results in fewer shipments and substantial savings!

- Year round follow up of instruments, spares and consumables
- Handling of all shipments & logistics
- Annual reports per vessel including budgeting



Safety

QA – strict routines and logging

- Crew are able to use instruments and follow routines correctly
- Instruments are in proper working condition at all times
- Instruments are calibrated at correct intervals
- Sensors and other items are replaced at correct intervals
- Usage of instruments is logged, including abnormal observations
- Traceability – instrument history and usage
- Routines and procedures can merge into the overall QA-system

Effective and proven training is an integrated part of The Bruusgaard System.

Instruments

All the equipment used for gas detection and calibration is placed in a custom-made wall cabinet. Including Log & Instruction Manual, which are crucial to maintaining the safety integrity.

- Standardised vessel specific gas detector solutions
- Total solutions including all equipment and routines necessary for efficient and safe use, storage and maintenance

Cost Savings

Some of our customers have been able to go from 8 to 10 suppliers down to 1 – translating into cost savings of up to 40-50%. For one vessel, this could be thousands of dollars annually, and for a whole fleet, the cost savings can be dramatic. This is achieved through:

- One contact for worldwide supply of spares & gases
- All service and calibration can be done on site.
- Reductions of instrument types from 10-12 to 2-3

Reduced maintenance costs through:

- On board calibration
- Fewer instruments on board
- No need for spares on board
- One PO per year
- Increased safety
- Less use of administrative time