

G600 Series Exotector®

Explosion Hazards Under Control



- Up to three detection ranges in one instrument
- AutoCal® automatic calibration
- Built-in pump allows measurement in diffusion or sample-draw mode
- Single-button control
- Analog display for gas hazards and leak detection
- Optical and audible alarms
- Up to 10 hours of continuous operation

Versatile Combustible Gas Detection

An explosive environment is created when combustible gases or vapors reach levels that are between the lower explosion limit (LEL) and the upper explosion limit (UEL). Methane, for example, has a LEL of 5% volume and UEL of 15% volume. These levels differ depending on which combustible gas is present.

The G600 series audible and visual alarms will be triggered long before an air-gas mixture has reached a dangerous concentration. The alarm threshold is usually set to 10% LEL, if not otherwise specified. The measurement principle for combustible gases and vapors in the percent LEL range is detected with a stable catalytic combustion sensor.

Various models of the G600 series use an additional detection principle on the basis of a thermal conductivity sensor. Using this system, combustible gases can be measured in concentrations up to 100% volume. Other models are available

with additional ppm or micro range readings. With its internal sampling pump, extremely small amounts of gas can easily be detected from leaks in pipelines, valves and fittings.

G634P

The G634P model is ideal for measuring, detecting and warning of leak warning for combustible gases and vapors. Some applications include:

- Gas supply companies
- Chemical industry
- Laboratories
- Storage tanks
- Landfills
- Solvent working companies
- Fire departments
- Civil and underground engineering

...and wherever life and/or property needs to be protected against hazardous combustible gases or vapors.



As the G600 thermal conductivity system shows only a minimal interference by carbon dioxide (CO₂), this instrument is suitable for direct landfill measurements without filters. The EXOTECTOR's functional features make it a high performance, reliable gas detector.

Technical Data

G600 series exotector

Gases

Combustible gases and vapors (examples: fuel vapors, natural gas, ethane, butane, methane, propane, hydrogen)

Ranges

Micro (10 to 15% LEL)
0-100% LEL or 0 to 100% volume
0-100% volume

Detection principles (sensor)

Catalytic combustion (up to LEL)
Thermal conductivity (LEL to 100% volume)

Accuracy

0 to 2% volume = ±0.1% of display
Greater than 2% volume = ±5% of display (except micro)

Response time T₂₀

5 seconds diffusion, 4 seconds pump

Gas Supply

Built-in sampling pump and diffusion

Display

Analog scale, 45 mm, range switch

Display of refuse gas CH₄ with CO₂

e.g. 40% CH₄ + 20% CO₂;
Reading = approximately 36 to 38% CH₄

Temperature range

Diffusion mode: -4 to +131°F / -20 to +55°C
Pump mode: -4 to +131°F / -20 to +55°C

Storage temperature

-40 to +140°F / -40 to +60°C
Recommended: +41 to +77°F / +5 to +25°C

Humidity range

Catalytic combustion: 0 to 95% r.h.
Thermal conductivity: 0 to 80% r.h.

Alarm (latching or non-latching)

Optical and acoustic alarm for exceeded threshold (fixed); battery alarm for discharged accumulator; additional battery control switch

Power supply

NiCad accumulator 2.0 Ah/3.6 V
(approximately 10 hours in diffusion mode)

Pump performance

Approximately 15 seconds with 5 minutes sampling line or telescopic probe, 0.5 l/min Average (0.25 l/min minimum); 10 minute Sampling line: approximately 20 to 25 second

Ratings and certification (intrinsic safety)

(Ex) I s G5 / BVS T6725
Model G 624P: MSHA 2G-3886-0
Additional approvals pending

Function and accuracy test

IBK / PFG-Nr. 41301191

Models Detection range

G615P	LEL
G624P	LEL, % volume
G634P	LEL, % volume, Micro

Specifications subject to change without notification

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