



TECHNICAL SPECIFICATIONS

μGAZEX™

Measurement principles :

- Catalytic combustion (explosivity meter)
- Thermal conductivity (katharometer)

4 versions :

- Single measurement scale explosivity meter :
 - from 0 to 100% LEL. The value displayed corresponds to the relative concentration in relation to the Lower Explosive Limit. 100% LEL is the threshold at which the gas can explode or ignite in the presence of oxygen.
- Explosivity meter-Katharometer with two measurement scales :
 - from 0 to 100% LEL.
 - from 0 to 100% Vol. Gas. This scale is adjusted for the reference gas that is present in the distribution network (generally methane).
- Explosivity meter with three measurement scales :
 - from 0 to 10,000 ppm. The value displayed corresponds to the actual concentration of methane in the volume of air that is being tested.
 - from 0 to 100% LEL
 - from 0 to 100% Vol. Gas.
- Methane level meter :
 - from 0 to 4.4 % CH₄.

Display :

- Back-lit liquid crystal digital and pictogram screen.
- Permanent display of gas concentration and battery charge level.
- Instantaneous min and max measured values.
- Alarms: Max and Min.

Key pad :

- Three-direction joystick button

Power supply :

- Uses Li-Ion batteries 3.7 V, 830 mAh or 920 mAh

Battery life :

- More than 15 hours

Charging time :

- 4.5 hours

Alarms :

- Visual alarm : - by means of flashing red LEDs which are visible from all 4 angles
 - display of ALARM message, type of alarm and alarm threshold
- Dual-tone audible alarm, < 95 dB at 30 cm
- Powerful vibration alarm suitable for noisy environments

Alarm thresholds :

- Instantaneous high and low alarms

Tests :

- Full self-test at start-up (electronic circuits, sensor and batteries)
- Continuous battery test

Housing :

- Robust impact-resistant waterproof elastomer case

Dimensions :

- Height 139 mm x width 50 mm x depth 28.2 mm

Weight :

- 119 g without fastening clip

Conditions of use :

- Humidity : from 15% to 95% RH
- Temperature : from -20 °C to +40 °C

Protection index :

- IP 67 (dust-ingress resistant and waterproof on brief immersion in water)

Maintenance :

- Rapid cell replacement

Certifications :

- CE 0080 marking
- EMC Directive 2004/108/EC - EN 50270: 2006
- ATEX in accordance with standards EN 60079-0, EN 60079-11 and EN 60079-26
- II 1 G Ex ia IIC T4 and I M1 Ex ia I
- Metrology: Standards EN 60079-29-1 : 2007; EN 50271

After-Sales service : GAZOMAT provides maintenance of all its products both in France and other countries through its many representatives world-wide.

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DISTRIBUTOR



A T.D. Williamson, Inc. Company

Personal protection in explosive zones



μGAZEX™

Multi-function Pocket Explosivity Meter

- Easy to use - single key operation
- Ultra-light and ultra-compact format
- Intrinsically safe - ATEX certification
- IP 67 - Impermeable to water

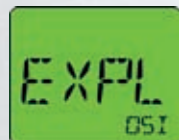


Maintenance
of pressurized
pipelines

Impression UNIST 09/2009 - Pictures are not binding on Gazomat - Specifications are subject to change without notice - Ref. μgazex_019_F_09_Rev01 du 11_09

THE μ GAZEX™ PROVIDES USERS WITH PERSONAL PROTECTION AGAINST EXPLOSION HAZARDS IN HAZARDOUS ENVIRONMENTS. THIS POCKET EXPLOSIVITY METER IS CERTIFIED TO ATEX GROUP 1 (MINES) AND GROUP 2 STANDARDS AND IS AVAILABLE IN FOUR VERSIONS:

- 1) EXPLOSIVITY METER - 1 MEASUREMENT SCALE : 0-100% LEL
- 2) EXPLOSIVITY METER-KATHAROMETER - 2 MEASUREMENT SCALES : 0-100% LEL - 0-100% VOL. GAS
- 3) EXPLOSIVITY METER - 3 MEASUREMENT SCALES : 0-10.000 PPM - 0-100% LEL - 0-100% VOL. GAS
- 4) METHANE LEVEL METER - 1 MEASUREMENT SCALE : 0-4,4% CH₄



EXPLOSIVITY METER
1 SCALE : % LEL



EXPLOSIVITY METER-KATHAROMETER
2 SCALES : % LEL & % VOL. GAS



EXPLOSIVITY METER
3 SCALES : PPM, % LEL, % VOL. GAS



METHANE LEVEL METER
1 SCALE : % CH₄

FULL SCALE VIEW OF THE μ GAZEX™



Visual alarm (LED)

Sensor

95 dB Audible alarm

Robust and light housing

Fastening clip

Single control key

Easy-to-read large LCD screen

Equipment type

EASY TO USE

- Single control key.
- Simple user interface.
- Gas library.

MAINTAINABLE EQUIPMENT

- Quick and easy sensor replacement.

ROBUST AND FULLY TESTED DESIGN

- Protection index – IP 67.
- Double-protection elastomeric housing.
- Multi-support fastening clip.
- Dust filter (mines).

POWERFUL ALARMS

- Visual flashing red LED alarms.
- 95 dB Audible alarm.
- Vibration alarm.

HIGH LEVELS OF PERFORMANCE AND RELIABILITY

- High sensor stability on extended exposure to gas.
- Self-test at start-up.
- Regulated charger/test station, compatible with Gazomat calibration unit.
- 15 hr operating time between recharges.
- 2 audible, visual and vibration alarm thresholds and a continuous default alarm.

DISPLAY



Alarm message

Measured concentration

Maintenance mode

Max and Min Measurements

Instantaneous alarm thresholds (high & low)

Unit of measurement (%Vol or PPM or LEL)

Status indicator – Battery capacity level



WIDE RANGE OF APPLICATIONS

- Gas transmission
- Refineries
- Gas distribution
- LPG storage
- Coal mines
- Fire and rescue brigades, etc.

THE EQUIPMENT AND ITS ACCESSORIES

The μ GAZEX™ unit is supplied fully calibrated, ready-to-use and complete with the following accessories :

1. Charger.
2. Supply unit.
3. Fastening clip.



OPTIONAL ACCESSORIES

- Test Kit comprising the following items :
 - One gas cylinder.
 - Gas supply regulator.
- Sampling system (not shown).
- Calibration software.
- Multi-point charger assembly (up to ten stations).
- Bluetooth Communication.



Multi-point charger assembly

Test Kit