

TECHNICAL SPECIFICATIONS

μGAZEX™

- Measurement principles :**
- Catalytic combustion (explosimeter)
 - Thermal conductivity (catharometer)
- 4 versions :**
- Single measurement scale explosimeter :
 - 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.
 - Explosimeter-catharometer 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).
 - Explosimeter 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.
 - Methanometer:
 - 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
- Conditions of storage :**
- Temperature : from -30°C to +50°C
- Protection index :**
- IP 54 (Protection against dust and water sprayed from all directions)
- 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, EN 60079-26 and EN 50303
 - II 1 G Ex ia IIC T4 and Ex i M1 Ex ia I
 - Metrology: Standards EN 60079-29-1 : 2007; EN 50271 : 2001

Impression UNIEST 09/2009 - Pictures are not binding on GAZOMAT™ - Specifications are subject to change without notice - Ref. μgazex™_019_E_09_09_Rev02 du 11_10

Personal protection in explosive zones



μGAZEX™

Multi-function Pocket Explosimeter

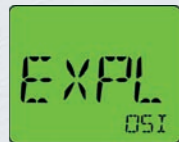
- Easy to use - single key operation
- Ultra-light and ultra-compact format
- Intrinsically safe - ATEX certification

Authorized
Agent

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The μ Gazex™ device provides users with personal protection against explosion hazards in hazardous environments. This pocket explosimeter is certified to ATEX Group 1 (Mines) and Group 2 standards and is available in four versions:

- | | | |
|------------------------------|------------------------|---|
| 1) Explosimeter | - 1 measurement scale | : 0-100% LEL |
| 2) Explosimeter-catharometer | - 2 measurement scales | : 0-100% LEL - 0-100% Vol. Gas |
| 3) Explosimeter | - 3 measurement scales | : 0-10.000 ppm - 0-100% LEL - 0-100% Vol. Gas |
| 4) Methanometer | - 1 measurement scale | : 0-4.4% CH ₄ |



Explosimeter
1 scale : % LEL



Explosimeter-catharometer
2 scales : % LEL & % Vol. gas



Explosimeter
3 scales : PPM, % LEL, % Vol. gas



Methanometer
1 scale : % CH₄

Full scale view of the μ Gazex™ device



Easy to use

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

Maintainable equipment

- Quick and easy sensor replacement.

Robust and fully tested design

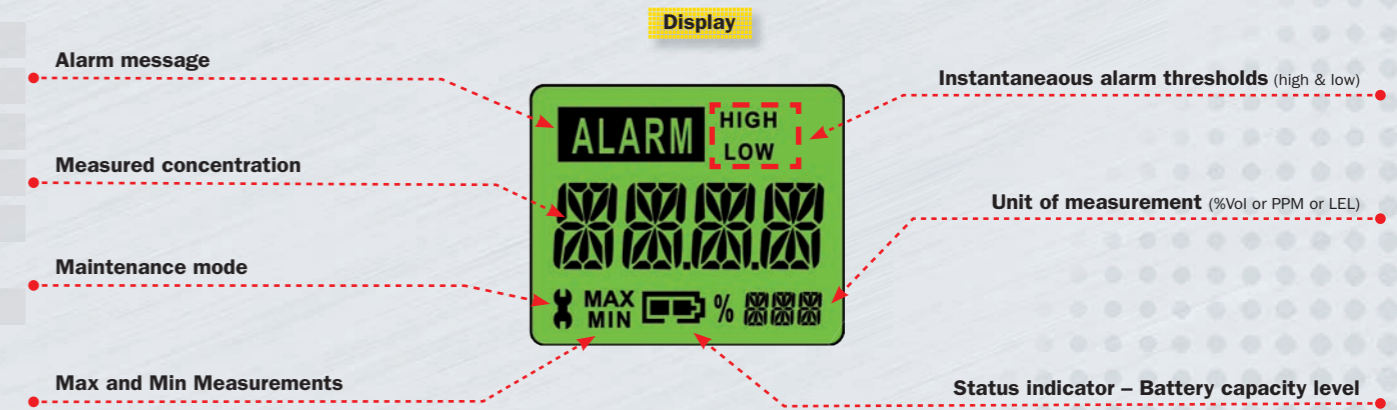
- Double-protection elastomeric housing
- Multi-support fastening clip
- Dust filter (mines).

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.



Wide range of applications

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

The equipment

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 (not shown).

Optional accessories

4. Multi-point charger assembly (up to ten stations)
5. Sampling system with suction bulb
6. Sampling adaptor.

Optional test accessories

7. Test and calibration accessories
 - 7a. Test kit comprising a gas cylinder and a gas supply regulator
 - 7b. USB cable
 - 7c. Test box
 - 7d. Calibration software (not shown).

