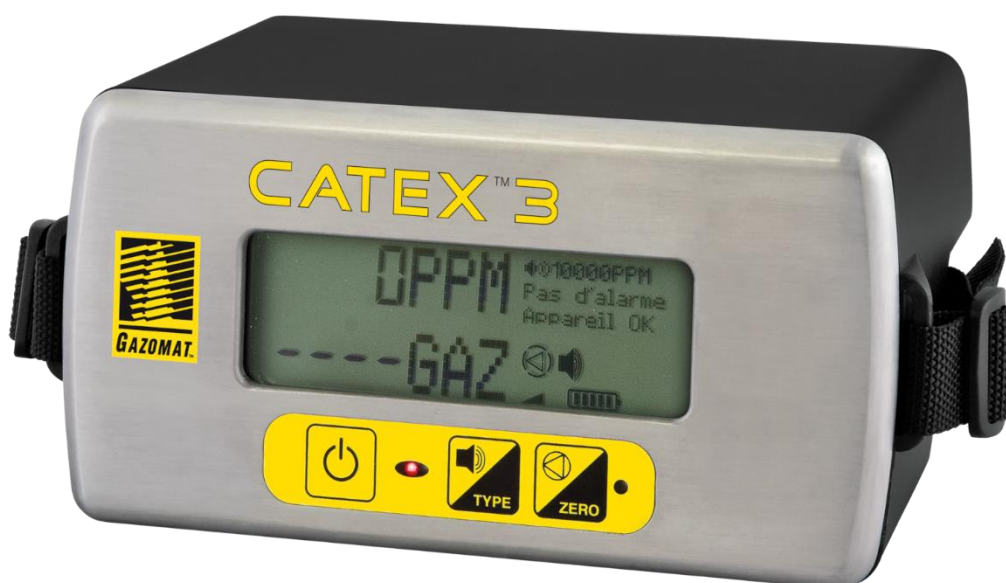


■ Detection and Localisation of Gas Leaks ■



CATEX™ 3

Explosimeter - Catharometer

- Easy-to-use
- Reliability and speed of detection
- Robust design
- Intrinsically safe to newest ATEX standards

Certified to newest ATEX and metrological standards, the CATEX™3 explosimeter-catharometer allows for pinpointing the exact location of a leak while ensuring optimal safety for operation in hazardous atmospheres.

Precise and reliable measurements

- **Three measurement scales**
 - PPM scale: 0ppm - 10000ppm (CH₄)
 - LEL scale (explosimetry): 0 % - 100 % LEL (CH₄)
 - GAS (catharometry) : 0 % à 100 % GAS VOLUME (*)
- **Two-scale display on large LCD screen**
 - Continuous display of the GAS VOLUME scale (*)
 - Automatic switching between PPM and LEL scales:
 - PPM, up to 10000ppm (CH₄)
 - LEL, from 10000ppm to 4.4 % GAS VOLUME (CH₄)
- **Start-up of the unit away from any explosive atmosphere either in PPM/GAS mode or in LEL/GAS mode**, depending on the nature of the area investigated and the explosion hazard level
- **Automatic zero setting of the three scales at start-up** outdoors and away from any explosive atmosphere
- **Manual zero setting possible** while the unit is in operation.



Easy-to-use

- Simple and intuitive interface
- Self-test at start-up of all key functions
- Visual and audio alarms for selection
- Status indicators for key components
- Dialog window for messages
- 12-hour operating time
- Complete set of accessories

Rating to latest ATEX standards

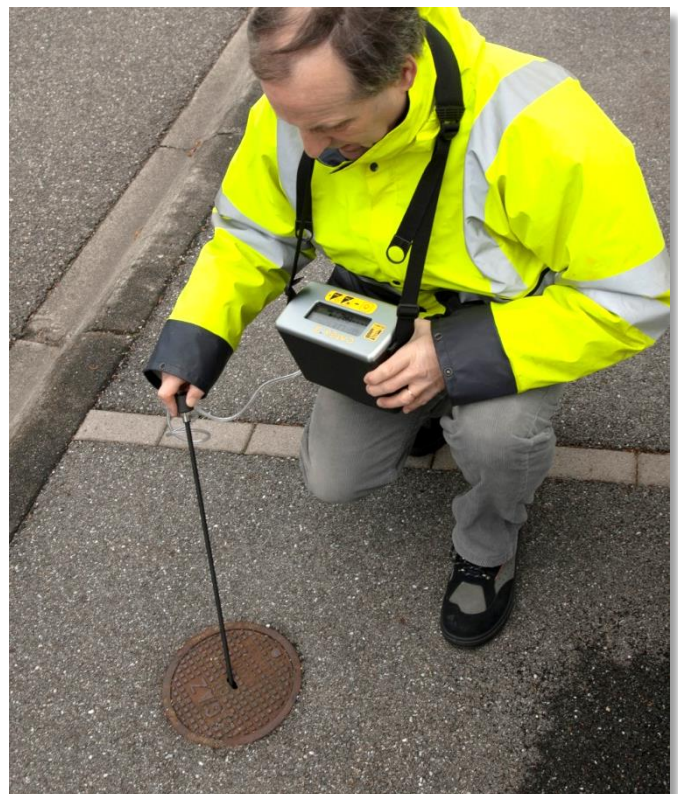
- In compliance with the latest European ATEX directive **2014/34/EU dated 26 February 2014**, the CATEX™3 can be used in zone 1 and zone 2 explosive atmospheres, indoors and outdoors.

Compact and robust design

- High performance material providing ultimate protection
- High ingress protection for superior resistance to extreme environmental conditions
- Reduced size and weight for the operator's greater comfort.

Extended applications

- **Leak confirmation and localisation in bored holes**
- **Leak detection indoors and outdoors**
 - Risers inside buildings
 - Gas boxes
- **Safety checks before re-pressurizing or after de-pressurizing gas pipelines** (measurement of gas concentration level in gas pipelines with or without the presence of nitrogen)
- **Control of the atmosphere** – Lower Explosive Limit monitoring to secure a working area.



(*) GAS VOLUME available upon request for other gases than methane (butane or propane)

The CATEX™3 instrument is available with a large set of accessories for efficient detection activities.

Accessories and complementary tools

- 100-240VAC mains charger with mains supply cord
- Charging base
- Long, semi-rigid sampling rod with quick coupling
- Short, flexible sampling rod with quick coupling
- Flexible sampling tubing (1m)
- Sample handle with water-repellent and dust filters
- Carry case to hold instrument and accessories
- Not shown: Set of water-repellent and dust filters
- Optional : 12VDC charger
- Optional: Gas check kit comprising a gas cylinder and a flow regulator.



TECHNICAL SPECIFICATIONS **CATEX™3**

Measurement principle:	<ul style="list-style-type: none"> Catalytic combustion (explosimetry) Thermal conductivity (catharometry) 		
Three measurement scales:	<ul style="list-style-type: none"> PPM scale: 0ppm-10000ppm (methane) – Minimum threshold: 50ppm <i>Values displayed correspond to the actual methane concentration</i> LEL scale (explosimetry): 0.0% LEL – 100% LEL (methane) – minimum threshold : 0.1% LEL <i>Values displayed correspond to gas concentration in relation to the Lower Explosive Limit. Beyond 100% LEL, the gas becomes explosive in the presence of oxygen.</i> GAS scale (catharometry) : 0% - 100% GAS VOLUME – minimum threshold: 0.2% <i>The scale is adjusted against the reference gas present in the pipeline network (methane, butane or propane).</i> 		
Measurement accuracy:	• PPM scale:	Methane	<ul style="list-style-type: none"> 0ppm - 1000ppm : ± 100ppm 1000ppm - 10000ppm : ± 10% relative
	• LEL scale: (Explosimetry)	Methane	<ul style="list-style-type: none"> 0% LEL - 50% LEL : ± 5% LEL 50% - 100% LEL : ± 10% relative
	• GAS scale (Catharometry)	Methane, butane or propane	<ul style="list-style-type: none"> 0% - 50% v/v : ± 5% v/v 50% - 100% v/v : ± 10% relative
Response time:	• T90 standard : 4.4 seconds		
Display:	• LCD screen, alpha-numeric display with digits, pictograms and back-lighting		
Keyboard:	• Three waterproof touch keys on front panel		
Visual indicator:	• One red LED on front panel		
Status indicators:	• Battery charge level, pump status, alarm selection		
Power supply :	• NiCd rechargeable battery pack as supplied by the manufacturer in compliance with ATEX certification		
Battery autonomy:	• 12 hours		
Battery charging time:	• 14 hours		
Pump flow rate:	• 32l/hr		
Alarms :	<ul style="list-style-type: none"> They activate audio and visual alerts (LED and LCD display) : <ul style="list-style-type: none"> Concentration threshold against methane CH₄ Explosion risk against methane CH₄ Pump: pump blocked, error pump 		
Case:	<ul style="list-style-type: none"> 4mm thick shock-resistant carbon-embedded polyamide case 10mm thick anodic aluminum front Display window in high-resistant ceramic glass 		
Sizes:	• L218mm x W104.5mm x H140.5mm		
Poids:	• 2.0 kg with batteries and carry strap		
Conditions of use: (under steady-state conditions):	<ul style="list-style-type: none"> Humidity: 30% < RH < 70% Temperature range : -20°C - +50°C Atmospheric pressure: 800mbar - 1100mbar 		
Storage conditions: (instrument without batteries)	<ul style="list-style-type: none"> Humidity : < 90% RH, non condensing Temperature : -20°C - +60°C Atmospheric pressure: 800mbar - 1100mbar 		
Ingress protection level:	• IP 55		
CE marking standard conformity:	<ul style="list-style-type: none"> EN 50270 :2015 – Electromagnetic compatibility EN 61010-1 :2010 + A1:2019/AC 2019-04 – Safety requirements for electrical equipment for measurement, control and laboratory use <p>European standards of use in explosive atmospheres :</p> <ul style="list-style-type: none"> EN IEC 60079-0 :2018 –ATEX general requirements EN 60079-1 : 2014 – Flameproof enclosures EN 60079-11 :2012 – Intrinsic safety EN 60529 – Degrees of protection provided by enclosures (IP code) 		
ATEX marking :	<div> <div>Ex</div> <div>II 2 G Ex db ia IIB T3 Gb</div> </div> <p>Tamb = -20°C - +50°C INERIS 21ATEX0023X</p>		
Country of origin:	Made in France		