

HAND-HELD NATURAL GAS LEAK DETECTION INSTRUMENT



THE EASY WAY TO MONITOR SURFACE EMISSIONS

Ideal for first responder technicians handling suspected gas leaks. Robust design and easy to use interface. Automatically scales to PPM / VOL / %. The highly-sensitive semiconductor sensors in the METREX detects and measures gas ranges that spans from 0 to 1,000,000 PPM (part per million).

FEATURES

- 50% lighter than legacy model
- Simple menu and operation
- Easy to read LCD display
- Adjustable gas thresholds
- Onboard data logging.
- Bluetooth data transfer
- Integrated ATEX GPS

APPLICATIONS

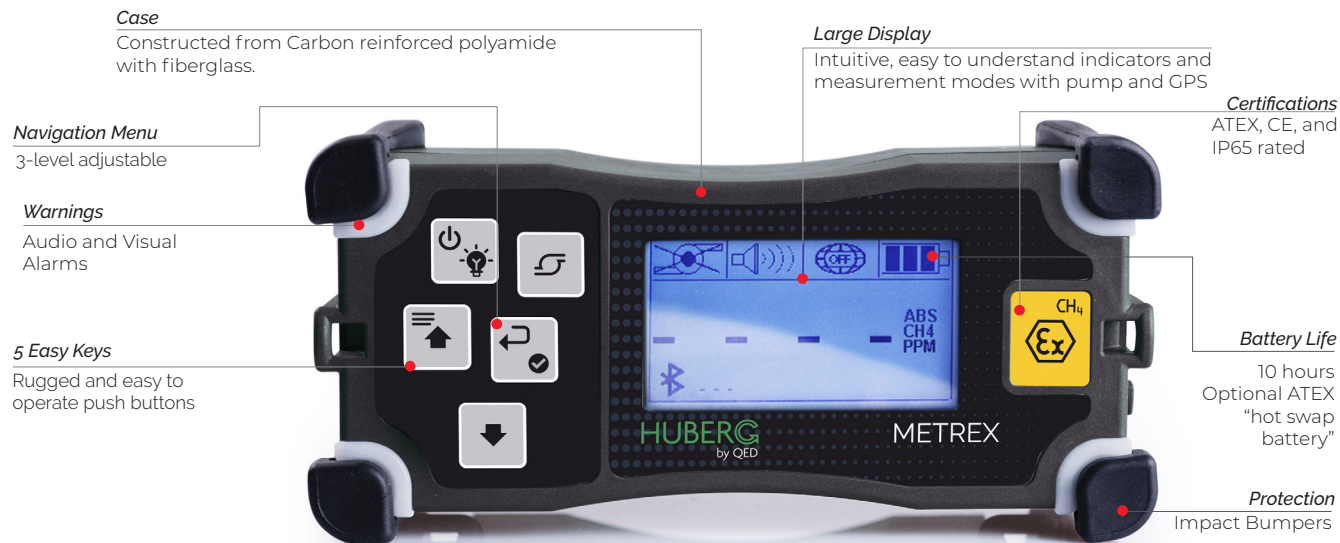
- Emergency services
- Leak detection in natural gas distribution networks
- Bar hole gas measurement
- Purging gas lines
- Enclosed space monitoring

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TECHNICAL SPECIFICATIONS











POWER SUPPLY			
Battery type	Li ion rechargeable, 3.7V-4000 mA/H	Battery charger	100-240V ATEX charger with USB communication port (H-100190)
Battery life	10 hours at 68F / 20C (with backlight on)	Charge Time	4.5 hours from complete discharge
PUMP			
Flow	0.6 L/min	Method	Membrane pump
FACILITIES			
Alarms	Audio and Visual	Alarm Warnings	Gas threshold and pump stopped
Communications	Bluetooth with optional ATEX USB with Communication Charger	Flow Measurement	External probe options (see next page)
ENVIRONMENTAL CONDITIONS			
Operating Temperature	-13 to 122F / -30 to 50C	Relative humidity	5% - 80% non condensing
Storage Temperature	-40 to 140F / -40 to 60C	Storage humidity	<95% relative humidity
Protection Class	IP65	Pressure	800 mbar to 1,100 mbar atmospheric pressure (non condensing)
PHYSICAL			
Weight	2.9 lb / 1.3 kg (in operation)	Size(LxWxH)	9" x 3.8" x 4.3" / 229x97x109mm
Case material	Carbon reinforced polyamide with fiberglass	Keys	"Tactile" soft membrane push buttons
Display	Liquid Crystal Display	Display (LxWxH)	9.45" x 5" / 240 x 128 mm
Sample Filters	25mm PTFE 0.45um dust and water filter (H-201272)	Connections	Push lock quick connect tube coupler
CERTIFICATION RATING			
ATEX/IECEX		ISO 17025	Calibration to UKAS certificate number 4533
Calibration	12 months by QED or authorized QED service and repair center complying with ISO standards		
Gas calibration test	Certified cylinder with H-100157 Quicktest kit		



ORDERING INFORMATION

Model Name	Part Number	Gasses	LEL Range	VOL Range	Resolution	Sensitivity
Metrex 4001	H-M4001-H	CH ₄ - Methane	0 - 100% LEL	0% - 100% v/v (option)	0 - 10,000 PPM	1%
Metrex 4002	H-M4002-H	C ₃ H ₈ - Propane	0 - 100% LEL	0% - 100% v/v (option)		
Metrex 4003	H-M4003-H	CH ₄ -Methane	0-100%LEL	0%-100% v/v (option)	0-10,000 PPM	1%
		C ₃ H ₈ - Propane	0 - 100% LEL	0%-100% v/v (option)		
METREX 4001 Package:	H-METREX4001	Package Incl : ProSoft Perpetual with ARC free for 1 Year ATEX Mains Charger, 12V Car battery charger HotSwap Battery Carry Case, Carry Strap Filter Kits (water & dust) Multifunctional Probe Kit: Wide mouthed telescopic sampling probe, flexible neck probe and bar hole sampling accessory				

METREX ACCESSORIES

H-107045 Hard Carry Case for Huberg instruments, charger and accessories		H-102010 12 v Car Charger used with H-100190 charging base	
H-107048 Carry Pouch with waist strap, 170cm, for METREX and LASER ONE .		H-102049 ATEX Hot Swap Battery Pack 14.6 k/w. Supplied with M3 x 65mm Allen Key	
H-100190 100 to 240 VAC/50-60 Hz battery charger for METREX 4 only Power Plug EU; US; GB		H-102037 100 - 240 VAC,50-60 Hz Charging base without USB communication port	
H-201261 Pack of 25 Acetate dust filters for use with probes		H-201272 Pack of 10 Anti Water Filter Kits. 25mm PTFE 0,45um	
H-100157 Quicktest BumpTest gas verification kit. Compatible with most disposable cylinders.		H-4091016 2 Point, 30mm Synthetic Carry Strap for METREX gen 4 and LASER ONE.	

PROBE KITS FOR USE WITH METREX INSTRUMENTS

H-900011 Universal telescopic probe with medium mouthed air sampling bell		H-100011 Universal telescopic probe with wide mouthed rubber air sampling bell		H-100058 Solid stem wide mouthed suction probe with PTFE suction tubing, anti-water filter and wide mouthed air sampling bell.	
H-100057 Bar hole sampling probe with suction tubing and anti-water filter		H-100059 Handle air sampling probe with flexible neck. Water and dust filter inside probe tip. Includes PTFE tubing		H-100060 Huberg carpet probe	
H-102035 Pack of 10 Sintered Brass filters used with sample probe bell kits		H-100176 Accessory: Telescopic handle H-100173 adaptor with quick-coupling to fit PTFE nylon tube into		H-100177 Accessory: 45° angled sampling probe to fit telescopic handle H-100173	
H-100012 Wide Mouthed Rubber Bell Cone. Use with probes H-100173 & H-100058. Includes Acetate filter housing and polyurethane tubing		H-100175 Accessory: Bar hole sampling accessory probe to fit telescopic handle H-1001		H-102035 Pack of 10 Sintered Brass filters used with sample probe bell kits	

PROSoft Software for use in Mains Gas Leak Detection	Annual Royalty Care	Standard	2-10 ARC Licenses
Part Number	H-707060	H-707060C	H-707060S
License Type	Annual Subscription	Perpetuity	Annual Subscription
Map Updates	●	At Release	●
.shp & OSM Files	●	At Release	●
Users	Single	Single	Up to 10
Live Connect to PC	●	●	●
Data Download	●	1 Year	●
Debugging	●	●	●
Technical Support	●	●	●
Software Updates	●	●	●

Software Developed for the Gas Distribution Network Operator

PROSoft integrates with The METREX

DNO's using these instruments can acquire the following data

- Data linked by time
- Geographic location
- Detected gas levels

Visualise Hard Data

Customisable graphical view of leak detection surveys where the recorded data are shown overlaid on Open Street Map views. DNO digital cartographies can easily be overlaid

- Detailed streetviews
- Locations of pipe network
- GPS points surveyed

Operators can visualize their complete survey and see where leaks occur relative to gas infrastructure and plan.

Realtime Connection and Communication

Data exported into various spatial formats, KMZ, ESRI & .shp