

## HAND-HELD NATURAL GAS LEAK DETECTION INSTRUMENT



**The METREX instrument is ATEX rated and designed for pre-localisation, localisation and classification of natural gas leaks in gas distribution networks**

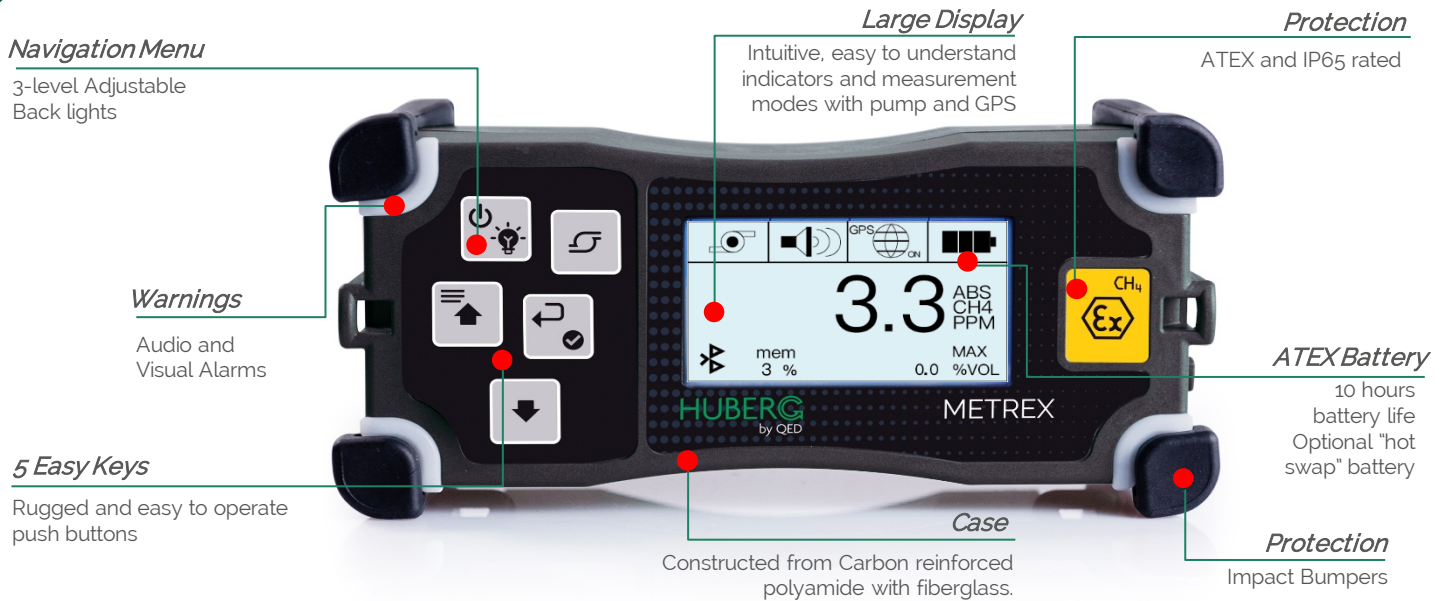
### FEATURES

- 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
- Compliance reporting with PROSoft
- Low maintenance and calibration costs
- IP65 rated

### APPLICATIONS

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

Ideal for first responder technicians handling suspected gas leaks. Robust design and easy to use interface. Automatically scales to PPM / LEL / VOL.



## TECHNICAL SPECIFICATIONS

POWER SUPPLY			
Battery type	Li ion rechargeable, 3.7V-4000 mA/H	Battery charger	100-240V ATEX
Battery life	10 hours at 20°C/68°F (with backlight on)	Charge Time	4.5 hours from complete discharge
PUMP			
Flow	0.8 l/min / 800cc/min	Pump Type	Diaphragm Pump
FACILITIES			
Alarms	Audio and Visual	Alarm Warnings	Gas threshold and pump stopped
Communications	Bluetooth with optional ATEX USB with Communication Charger	External probe options (see next page)	
Response Time	Gas detection in 5 seconds    T <sub>90</sub> = <15 seconds @100%Vol (CH <sub>4</sub> / C <sub>3</sub> H <sub>8</sub> )		
ENVIRONMENTAL CONDITIONS			
Operating Temperature	-30°C to +50°C / -22°F to 122°F	Operating / Storage humidity	<95% relative humidity non condensing
Storage Temperature	-40°C to +60°C / -40°F to 140°F		
Protection Class	IP65	Operational Pressure	800 mbar to 1,100 mbar 23.62"Hg to 32.48"Hg
PHYSICAL			
Weight	13 kg / 2.9 lbs (in operation)	Size (L x W x H)	230 x 97.5 x 110 mm 9.06"x 3.84 "x 4.33"
Case material	Carbon reinforced polyamide with fiberglass	Keys	"Tactile" soft membrane push buttons
Display	Liquid Crystal Display	Display (L x H)	86 x 47 mm / 3.39" x 1.85"
Sample Filters	25mm PTFE 0.45um dust and water filter (H-201272)	Connections	Push lock quick connect tube coupler
CERTIFICATION RATING			
ATEX	II 2G Ex db ib IIB T4 Gb	Gas calibration test	Certified cylinder with H-100157 Quicktest kit
Calibration	12 months by QED or authorised QED service and repair center complying with ISO standards		



## INSTRUMENT OPTIONS

Model Name	Part Number	Gases	PPM Range	LEL Range	VOL Range	Accuracy
Metrex 4001	H-M400100[LNG]	CH <sub>4</sub> - Methane	0 - 10,000PPM	0 - 100% LEL	0 - 100% v/v	+/-10% relative to reading
Metrex 4002	H-M400200[LNG]	C <sub>3</sub> H <sub>8</sub> - Propane	0 - 10,000PPM	0 - 100% LEL	0 - 100% v/v	+/-10% relative to reading
Metrex 4003	H-M400300[LNG]	CH <sub>4</sub> - Methane C <sub>3</sub> H <sub>8</sub> - Propane	0 - 10,000PPM	0 - 100% LEL	0 - 100% v/v	+/-10% relative to reading
NOTE: CH <sub>4</sub> / C <sub>3</sub> H <sub>8</sub> minimum threshold = 100PPM						
METREX 4001 Package	H-M400101[LNG]	Includes, ProSoft Premium free for 1 Year   ATEX Mains Charger, 12V Car battery charger   Hot Swap 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				
Language Options <b>[LNG]</b>		<b>EN</b> - English   <b>IT</b> - Italian   <b>DE</b> - German   <b>FR</b> - French   <b>ES</b> - Spanish   <b>NL</b> - Dutch   <b>PL</b> - Polish Example: Metrex 4001 instrument configured with Spanish Operation menus Order part number H-M400100ES				

## METREX ACCESSORIES

<b>H-107045</b> Hard Carry Case for Huberg instruments, charger and accessories		<b>H-102010</b> 12 v Car Charger used with H-100190 charging base	
<b>H-107048</b> Carry Pouch with waist strap, 170cm, for METREX and LASER ONE.		<b>H-102049</b> ATEX Hot Swap Battery Pack   4000mA/Hr. Supplied with M3x 65mm Allen Key	
<b>H-M4-S001</b> Charger with USB Communication Port   100 to 240 VAC/50-60 Hz for use with METREX 4 only   Power Plug EU; US; GB		<b>H-M4-S002</b> Charger without Communication Port   100 to 240 VAC/50-60 Hz for use with METREX only   Power Plug EU; US; GB	
<b>H-201261</b> Pack of 25 Acetate dust filters for use with probes		<b>H-201272</b> Pack of 10 Anti Water Filter Kits. 25mm PTFE 0.45um	
<b>H-100157</b> Quicktest   Bump Test gas verification kit.  Compatible with most disposable cylinders.		<b>H-4091016</b> 2 Point, 30mm Synthetic Carry Strap for METREX gen 4 and LASER ONE.	

## PROBE KITS FOR USE WITH METREX INSTRUMENTS

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

### PROSoft Software for use in Mains Gas Leak Detection

	Basic	Subscription	Premium
Part Number	H-707060C	H-707060	H-707060P
Licence Type	Perpetual	Annual	1 Year
Map Updates	At Release	✓	✓
.shp & OSM Files	At Release	✓	✓
Users	Single	Single	Single
Live Connect to PC		✓	✓
Data Download		✓	✓
Debugging		✓	✓
Technical Support		✓	✓
Software Updates	✓	✓	✓

### Software developed for the Gas Distribution Network Operator (DNO)

PROSoft integrates with the METREX

DNO's using these instruments can acquire the following data

- o Data linked by time
- o Geographic location
- o 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

- o Detailed street views
- o Locations of pipe network
- o GPS points surveyed

Operators can visualise 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