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VIVAX

METROTECH

HL5000-H₂

Tracer Gas Sniffer





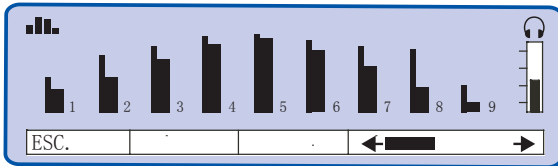
How Does Tracer Gas/Test Gas Measurement Work?

The use of tracer gas for locating leaks in water pipes with electronic gas detection equipment has been tried and tested for several years.

To find a leak, the pipe to be investigated is filled with tracer gas (welding gas - 5 % hydrogen and 95% nitrogen) through a hydrant or house connection. Hydrogen escapes from the leak and can be located at the surface. Based on its low specific density and molecular structure, hydrogen gas has the particular characteristic of quickly penetrating all materials (concrete, tiles, blacktop, etc.) where it can then be detected using the PAM-H₂.

Due to its precise and quick reaction, the HL5000-H₂ is ideal to locate even the smallest leaks accurately.

The Histogram Measurement - watching & listening to the gas penetration



Operating the system in gas mode is very similar to operating in standard 'noise location mode' as the functions of both modes are almost the same. The measured gas concentration is displayed graphically (as a bar graph) and numerically (in ppm). Simultaneously the measured gas concentration is indicated by a sound signal through the headphones (deeper sound → lower gas level; higher sound → high gas level).

Adjusting the Sensitivity

Using the two soft keys (bottom right), the sensitivity of the system can be set. One of the following ranges can be selected:

- 0 ... 20ppm
- 0 ... 50ppm
- 0 ... 100ppm
- 0 ... 500ppm
- 0 ... 1000ppm
- 0 ... 5000ppm
- 0 ... 10000ppm

Current Value Graphically

Current Value Numerically

in ppm 20

The currently selected sensitivity range is displayed above the soft keys.

Performing a Zero Balance

It is recommended to perform a zero balance prior to every measurement. In order to do so, hold the gas sensor up in the air, far from the ground, and press the soft key under the symbol briefly. Wait for the numerical gas value to even out at approx. zero, then press the soft key once again in order to finish the zero balance and return to the gas mode menu.

Reduce water loss faster...

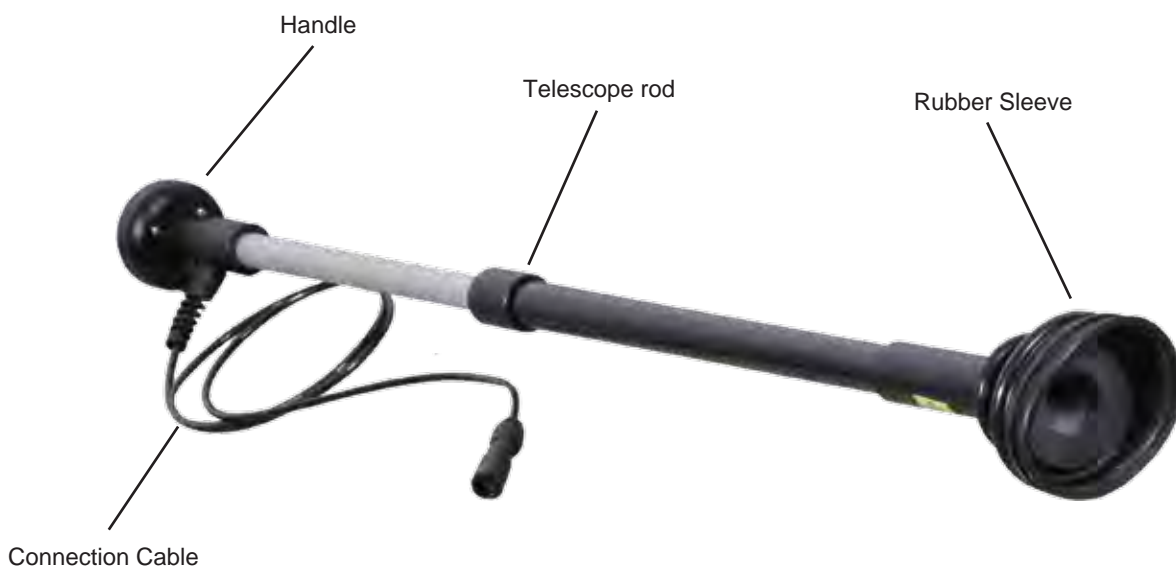


Performing a Measurement

The procedure in locating tracer gas doesn't differ from the procedure in locating leak noises: put the gas sensor on a measuring point on the ground – read measured value from the display or listen to the sound on the earphones – press the mute button – go to the next measuring point – press the mute button again – read measured value – and so on ...

Histogram Function

By the help of the histogram function the last 9 recorded measurements can be displayed in the form of bar graphs. The function is available in gas mode, too. The handling is the same as in noise mode. The only difference is that the dual segment analysis (DSA) is not needed because every bar graph represents exactly one measured gas level.



Due to the telescopic function, the sensor rod can be adapted to the user's individual height. The sensor rod is connected to the microphone connector on the right hand side of the device. The gas sensor is located at the bottom of the rod and covered by a rubber foot. Do not put the sensor under water.



Technical Specification

PAM-H₂

Analysis Bandwidth	0 - 10,000ppm
Sensitivity	0.7ppm H ₂ in air
Response Time	< 2sec
Warm-up Time	6sec
Operating Life of the Replaceable Gas Sensor	2 to 5 years (depending on intensity of use)

HL5000 Main Unit

Analysis Bandwidth	0Hz - 4000Hz
Filter Cut-Off Frequencies	0 - 70Hz, 106Hz, 160Hz, 240Hz, 360Hz, 540Hz, 800Hz, 1200Hz, 1800 - 4000Hz
Histogram Recordings	9 dual displays
Storage of Noise Levels	3 - 10 - 30min
Display 130 x 36mm	LCD display
LCD Backlight	Built-in
Power Supply	10 x AA batteries, (1.5Volt)
Operating Time	> 35hours (battery)
Storage	9 measurements
Mute Button	Built-in
Operating Temperature	14°F to 122°F (-10°C to 50°C)
Storage Temperature	14°F to 158°F (-10°C to 70°C)
Protection Class when in Operation	IP54
Dimensions	8.5in (L) x 3.7in (W) x 4.3in (H) (215mm x 95mm x 110mm)
Weight	HLE 5000: 2.6lbs (1.2kg) (with batteries)



www.gappower.com
5399 Lincoln Hwy
Gap, PA 17527
717-442-8970

Vivax-Metrotech Corporation
3251 Olcott Street, Santa Clara, CA 95054
T/Free: +1-800-446-3392 Tel: +1-408-734-1400
Fax: +1-408-734-1415 Email: sales@vxmt.com

Vivax Canada Inc.
400 Esna Park Drive, Unit 17, Markham, Ontario, L3R 3K2, Canada
Tel: +1-289-846-3010 Fax: +1-905-752-0214
Email: CanadianSales@vxmt.com