HUNTER H_2

Gas detection device for easily locating even the smallest leaks in water and heating systems

- First sensor: Extremely quick response on smallest hydrogen concentrations. Specialised for hydrogen with a resolution of 0,1 ppm H_2
- Second sensor: to protect the first sensor and used for higher concentrations e.g. pinpointing in pinholes
- Integrated powerful pump for a high flow and underpressure

PICTURES OF APPLICATION

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The correlation and electro-acoustic methods are often used to detect and locate leakages. But for some reasons certain leakages are not detectable with this methods. For the locating of e.g. very small leakages the application of tracergas is an alternative succesful method. For this method a certain tracergas is infilled under pressure into the pipe. If there is still water inside the pipe should be drained or blowed out.

HOW TO USE IN PRACTICE

The leaky pipe is filled with inert gas (5 Vol.% hydrogen and 95 Vol.% nitrogen). This gas is commercially available and, in addition to the low price, has the advantage that it is neither combustible nor poisonous. Its use is thus completely safe.

As the smallest element, hydrogen has the property of leaking from even the smallest pinhole. Because hydrogen is significantly lighter than air, it migrates upwards and is located above the leak by the bell probe. At the same time, hydrogen also passes through soil, flooring, concrete and screed.

The location of the strongest concentration of hydrogen is easily determined using a concentration indicator on the display of the measurement device. Depending on the actual concetration and situation it is possible to use different scales and sensors. One scale is for very low concentrations (0 ... 1.000 ppm H_2) and one is for pinpointing (0 ... 5 % H_2). With this important feature it is possible to avoid a temporary contamination of the high sensitive sensor. User of devices with only one (sensitive) sensor need to wait in this case for minutes until getting a useful signal again or can even damage the sensor.

TECHNICAL DATA

Display	LCD graphic display 128 x 64 pixels, illuminable
Power supply	NiMH rechargeable battery pack
Operating temperature	-10 °C to + 50 °C
Operating time	> 10 hours
High sensitive range	measurement range: 0 ... 1.000 ppm H_2, resolution: 0,1 ppm Response time: T90 < 5 seconds for H_2 (hydrogen) measurement range: 0 ... 5 Vol.% H2 in N_2, resolution: 0,01 % Response time: T90 < 5 seconds for H_2 (hydrogen)
Pump	> 40 l/h, > 300 mbar
Protection	IP 54
Dimensions	200 x 100 x 87 mm
Weight	approx. 1.100 g (inkl. Akku)

Technical specifications subject to change! Status 2020/06

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