

## VARIOTEC® 8 - Tracer Gas



**Locating even  
the smallest leaks**

## Universal leak detection for a multitude of applications

Using tracer gas is a tried and tested method of locating leaks. It can be used in gas and water distribution networks, pipelines in buildings, heating systems, pressurised communication cables, gas-filled high voltage power lines and landfill sites sealed with double membrane layers. It can also be used to test for leaks in industrial products such as pipes, pumps, engine blocks and airfoils.



Detecting gas leaks by tracer gas involves feeding a mixture of 95% nitrogen (carrier gas) and 5% hydrogen into the pipelines or other equipment/products being tested. Hydrogen is the lightest of gases and escapes through the leak site, where it is then detected by the highly sensitive **VARIOTEC® 8 - Tracer Gas** sensor. Two measuring ranges for above-ground detection in the ppm range and locating leaks in the % vol. range in underground cables make the **VARIOTEC® 8 - Tracer Gas** the standard in this equipment group. Sensors and device software are optimised for locating underground cables.

The low amount of hydrogen (just 5%) means that this method is absolutely safe: the gas is incombustible as per ISO 10156 thanks to the use of nitrogen as the carrier gas. It is non-toxic, and therefore also permitted for use in drinking water networks, as well as non-corrosive.

Tracer gas is cheap and easy to buy from technical gas or welding gas dealers. It is also environmentally-neutral and permeates all cover layers such as asphalt, concrete and other seal coats. Tracer gas always looks for the shortest route from the leak site to the surface.

There is an extensive range of accessories available for testing in diverse applications:

- Carpet probes for testing fixed surfaces
- Bell probes for testing in overgrown terrain or on floors
- Localisation probes for determining the exact point of damage in underground cables
- Handheld probes for testing indoor installations

*Please contact us for a comprehensive quotation, including additional technical specifications and information on accessories.*

106600 – 09/10 – Subject to technical changes.