Snoopi

LV Cable Fault Gas Detector

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kelvatek
camlin group

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OVERVIEW

Rapid, reliable confirmation of underground cable faults.
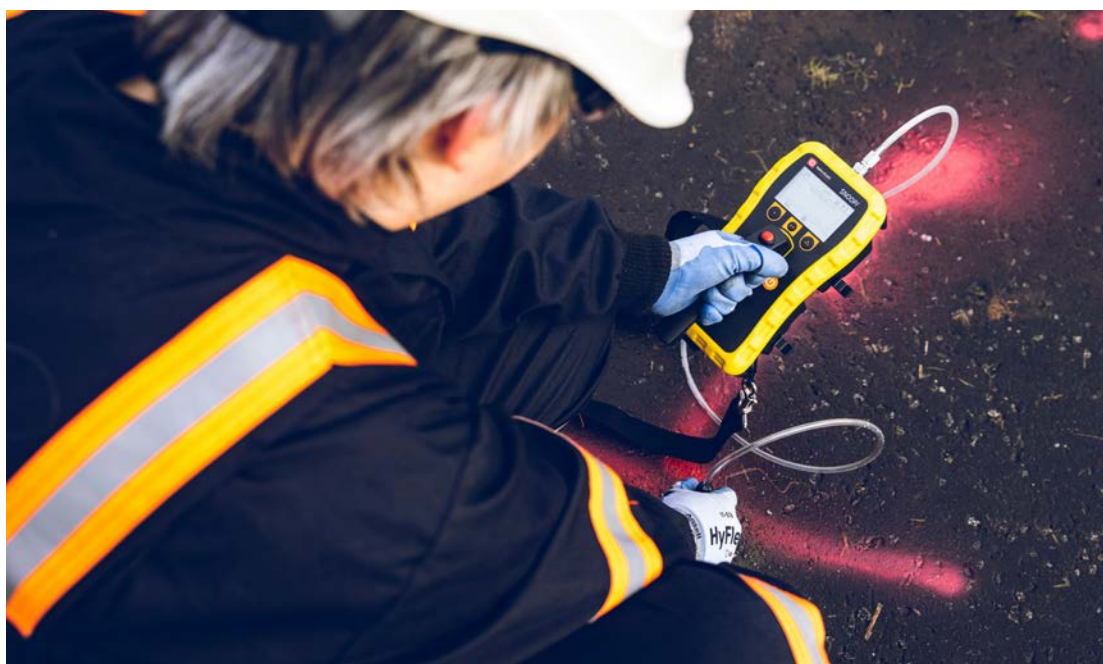
The complexity of low voltage (LV) distribution networks makes finding underground faults a major challenge, especially when they are transient or intermittent.

Cable records can be inaccurate or incomplete due to age, erratic cable paths or poorly documented historic repairs. This can lead to expected fault location distances not corresponding precisely with the expected location on the ground.

For many years network operators have used fault gas sniffing as part of their LV fault finding strategy. The success of this technique relies on the test being carried out in a timely manner, whilst the fault gasses are present and in sufficient concentration near the surface. It also depends on differentiating fault gases from background gas levels: non-discriminatory gas sniffers can often provide a positive indication on natural gas leaks with potential subsequent safety implications.

Snoopi is the only fault gas detector that overcomes these challenges, giving network operators confidence of an accurate confirmation of an underground cable fault's location.

Highly discriminating gas sensor technology allows clear identification of the gases emitted by cable faults. Logging of test positions and gas levels enables detection of lower level emissions, whilst the gas discrimination avoids costly, and potentially dangerous false alarms due to other sources of gas.

KEY BENEFITS

Increased Fault Location Accuracy

Gas sample readings and GPS location for each sniff are captured and communicated to our Sapient service increasing the accuracy of fault locations and avoiding unproductive repeat visits.

Eliminates False Positives

Distinguishes accurately between fault gases and natural gas to pinpoint faults in their infancy, eliminating false positives and unnecessary excavations.

Reduced Maintenance and Calibration

Frontline maintainable and a long service interval maximises the in-service utilisation and return on investment.

KEY CAPABILITIES

- Durable, flexible sample tube
- Integration with Sapient for remote storage and analysis
- Detects four separate gases providing clear understanding of the sample
- Transparent sample tube for easy identification of water ingestion
- Rechargeable battery packs
- Optical sensing technology
- Displays single ppm value based on fault gases only (excluding natural gases)
- On-site test result graph, post-test for clear understanding of sniff sample results
- Independent alerts for high methane detection with ppm value detected
- Low flow warning
- Onboard memory for sample data storage
- 3-year maintenance interval

INTEGRATION WITH SAPIENT FOR ADVANCED ASSISTANCE AND ANALYTICS

Snoopi integrates fully with Kelvatek's Sapient service, allowing real-time and historic viewing of results. Available 27/4, our unique Sapient support service provides precise location information of intermittent and permanent faults. It ensures minimal disruption to customers and enhances operational performance.

TECHNICAL SPECIFICATIONS

Specifications

Size	250 mm x 120 mm x 140 mm
Weight	1.3 kg
Operating temperature range	-20° - + 50°C
Rechargeable battery life	Typically > 1 day in normal use
Environmental protection rating	IP55
Location system	GPS
Calibration interval	3 years

Options and add-ons

Standalone includes:	Additional Sapient Connected features:
Discriminates - cable fault/natural gas	Sapient team can advise of previous site results
Bespoke optical sensor and unique water trap allows use in damp conditions	Timestamp with historic online view
Daylight readable screen	Additional battery, filters and probe included
Clear flexible probe – non-brittle, see any blockage	Activated SIM for updates and server connection
Single, user replaceable long-life filter	Full maintenance included
Memory storage for on screen comparison	

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