



IRwin® Methane Leak Detector

Innovation that simplifies
every step.



 **INFICON**

Smart Methane Detection Built for Utility Fieldwork

The IRwin portable methane leak detector gives utility crews everything they need for faster, safer, and more accurate gas leak surveys without needing to carry multiple devices. Its lightweight design makes pipeline inspections easier while advanced infrared sensing delivers quick, reliable results in the field.

Whether scanning miles of gas mains, dealing with emergency leaks or monitoring methane emissions, IRwin delivers reliable results with minimal effort. From detecting the smallest trace of gas to identifying major leaks, it automatically adjusts to the situation – so all that is needed is one instrument.

The intrinsically safe IRwin SX model is ATEX-certified for use in the most hazardous locations (Zone 0/Class I Division 1), so crews can work with confidence. It detects methane concentrations down to 1 ppm—well beyond the regulatory requirements in the gas industry—helping drive compliance while maintaining the highest accuracy in the field.

Distinguish Swamp Gas from Real Leaks On the Spot

Avoid false alarms that lead to wasted time and interruptions. IRwin uses a built-in gas chromatograph (GC) and sensor combination to instantly determine if the gas is natural gas or swamp gas—even at ethane levels as low as 0.5%. You get fast, confident answers without lab testing or second-guessing.

ADVANTAGES AT A GLANCE

- ✓ No false alarms
- ✓ Improved efficiency with high sensitivity, fast response, and short recovery time
- ✓ Accurate gas analysis through advanced IR technology
- ✓ Fast ethane and propane detection
- ✓ Easy distinction between natural gas and swamp gas
- ✓ Automatic documentation of survey results
- ✓ EU 2024/1787 and OMGP 2.0 Tier 4 compliant

TYPICAL APPLICATIONS

- Natural gas pipeline survey
- Emergency situations
- Landfill emission monitoring
- Biogas and wastewater treatment plant leak and emission monitoring
- LDAR methane emissions monitoring and quantification (EN 15446 and Method 21)



DURABILITY YOU CAN COUNT ON

- Bright, easy-to-read screen – even in direct sunlight
- Weatherproof and robust housing (IP54-rated)
- Built for demanding field conditions
- Explosion-proof models for hazardous zones

AUTOMATIC ADJUSTMENTS FOR ACCURATE READINGS

Whether it's a tiny leak or full gas flow, IRwin adjusts automatically with its Universal+ mode, switching between PPM, %LEL, and Vol% to give you accurate, readable results every time. No manual toggling. Just precise data, instantly.



ACCURATE BAR HOLD READINGS IN SECONDS

Thanks to the built-in CGI (Combustible Gas Indicator) function, you can take accurate bar hole readings in just 15 seconds without needing a separate device. This means quicker leak localization, fewer tools to manage, and less gear to haul in the field. By combining multiple survey functions into one easy-to-use instrument, IRwin saves time, cuts equipment costs, and simplifies every step of your day.



COMFORTABLE ENOUGH FOR LONG SHIFTS

Weighing only 1.6 kg (3.5 lb), IRwin is built for long survey days. The modular probe system and quick-swap fittings let you adapt to any environment without hauling extra gear. Crews can even change filters in the field with minimal tools.

VERSATILE ACCESSORIES TO FIT ANY JOB

- Bell
- Flexi bell
- Mono-wheeler carpet probe
- Flexible extension
- M21 probe
- Insertion probe
- Swan neck
- Bar hole probe



EFFORTLESS DOCUMENTATION WITH BUILT-IN GPS AND A CHECK-IN APP

IRwin takes care of the paperwork so you can focus on the survey. Your entire route is automatically tracked using built-in GPS and easily integrated into GIS systems for seamless mapping and verification. All survey data is transferred wirelessly via Bluetooth® to your smartphone or computer -no cables, no manual note-taking, no risk of data loss. And with the IRwin Check-in App, you can create and send reports directly from the field in just a few seconds.



PINPOINTING LEAKS WITH FEWER BAR HOLES




IRwin's powerful vacuum bell draws gas through asphalt and other paved surfaces, allowing you to pinpoint leaks with fewer bar holes.



THE IRWIN INTELLIGENCE

In order to avoid misleading measurements or false alarms, IRwin features an infrared sensor in combination with a patented gas filter. It even prevents interference from water vapor, exhaust gases and other VOCs.



	DETECTOR MODELS				
OPERATING MODES*	IRWIN S	IRWIN SX	IRWIN SXT	IRWIN SXG	IRWIN SXGT
Universal+ (from 1ppm to 100Vol%)	●	●	●	●	●
 Ex		●		●	
 GC Analysis				●	●
 Ex Tox			●		●

*Configuration options allow compliance with local regulations, such as DVGW standards in Germany.

IRWIN METHANE LEAK DETECTOR

SPECIFICATIONS	
Ex classification	Ex II 1G, Ex ia IIC T3 Ga (Zone 0)
Intrinsically safe	Class I, Division 1, Groups B, C and D
Detectable gases	See "Ordering information" below
Measurement range	1 ppm to 100% CH ₄
Charging time	100% in 4h (3h in fast charge mode)
Operating time	> 8h
Power supply	Li-ion battery
IP protection	IP54
Operating temperature	SXT and SXGT models: -15 to +40°C (5 to 104°F) Other models: -20 to +50°C (-4 to 122°F)
Storage temperature	-25 to +70°C (-13 to 158°F)
Air humidity	max. 95% RH, non-condensing
Dimensions (W x H x D):	197 x 256 x 62 mm (7.7 x 10 x 2.4 in.)
Weight	1.6 kg (3.5 lb.)

COMPLETE ACCESSORIES	
PRODUCT	Cat no.
Mono-wheeler Carpet Probe	580-210
Bell Probe	580-300

ACCESSORY PARTS	
Carpet	580-211
Bell	580-301
Flexi Bell	580-305
Hand Probe	580-100
Hand Probe Flexible Extension	580-110
Rod, 850 mm (33.4 in.)	580-150
Short Rod, 600 mm (23.6 in.)	580-140
Extension Rod, 150 mm (5.9 in.)	580-160
Subsurface Probe	580-190
Swan Neck Probe	580-120
M21 Probe	580-185
Insertion Probe Handle	580-360
Short Insertion Probe Tip	580-361
Long Insertion Probe Tip	580-362
Extension Connector	580-220
Harness	580-405
Transport Case	580-450

For more accessory and spare parts, visit www.inficon.com

ORDERING INFORMATION	
PRODUCT	Cat. no.
IRwin S (methane, carbon dioxide and ethane)	580-000*
IRwin SX (methane, carbon dioxide, ethane, propane and butane)	580-010*
IRwin SXT (methane, carbon dioxide, ethane, propane, butane, oxygen, hydrogen sulfide and carbon monoxide)	580-015*
IRwin SXG (methane, carbon dioxide, ethane, propane and butane)	580-020*
IRwin SXGT (methane, carbon dioxide, ethane, propane, butane, oxygen, hydrogen sulfide and carbon monoxide)	580-030*
IRwin Compact Kit	580-240**

* IRwin Methane Leak Detector with hand probe, 1.5m (4.9 ft) hose, harness and charger.

** Kit including Compact Rod, Extension Rod, Bell, ODFR, Filter kit and transport case.



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Due to our continuing program of product improvements, specifications are subject to change without notice.
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