



# IRwin<sup>®</sup> Methane Leak Detector

Innovation makes the difference





# Innovative methane detector system for easy survey of gas pipelines

IRwin is a portable methane leak detector for fast and easy survey of gas pipelines. This multi-function instrument efficiently operates on different surfaces and situations during survey, is highly sensitive, responds quickly and has a short recovery time. It is certified intrinsically safe, with TÜV® certified capability for LEL, oxygen and toxic gas measurements. The IRwin SX-models are rated explosion-proof for Zone 0 applications, holding several national and international certificates.

## **FAST GAS ANALYSIS EVEN AT LOW ETHANE CONCENTRATIONS**

The specially developed gas chromatograph (GC) and sensor combination allows near real-time distinction between swamp gas and natural gas. This helps operators to rapidly determine if the detected gas comes from a leaking pipe, from other natural gas sources or from swamp gas. The GC inside IRwin delivers fast test results, even at low ethane (from 0.5%) concentrations.

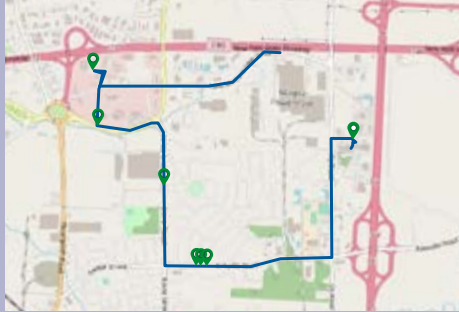


## **LIGHTWEIGHT SYSTEM FOR COMFORTABLE USE ON LONG DAYS**

IRwin is light (1.6 kg, 3.5 lb) and portable for optimum comfort. The instrument and its accessories have been developed for mobile use in demanding conditions. In particular, its modular probe system reduces the number of items the operator needs to carry during pipeline survey. Thanks to quick install fittings, the user can easily apply the correct probe for the specific working situation.



Efficient gas determination in the field.



Route walked by the operator can be visualized on GIS.

### **SURVEY TRACKING WITH INTEGRATED GPS**


Documenting survey work minimizes risks for operator mistakes. Thanks to the integrated GPS, the route walked by the operator will be visualized on geographic information systems (GIS) for easy survey tracking. GPS data and survey measurements are transferred from the instrument to a computer wireless via Bluetooth® technology.

#### **ADVANTAGES AT A GLANCE**

- No false alarms
- Improved efficiency with high sensitivity, fast reaction and short recovery time
- Accurate gas analysis enabled through improved IR-technology
- Fast ethane and propane analysis
- Easy distinction between natural gas and swamp gas
- Automatic documentation of survey results



### **DURABLE DESIGN FOR USE IN TOUGH ENVIRONMENTS**

- Clear and easy-to-read display in bright light
- Lightweight device (1.6 kg, 3.5 lb) for maximum ergonomics
- Robust and weatherproof (IP54) housing
- Explosion-proof models for use in hazardous environments 
- GPS and Bluetooth log and transfer results



### **MODULAR SYSTEM MAKES IT EASY TO ADAPT TO DIFFERENT SURFACES AND SITUATIONS**

- Light and easy to move around for comfortable use on long days
- Versatile accessories to suit all needs
- Robust install fittings with click mechanism for quick change to the appropriate probe
- All needed items are easily carried – no need for extra trips to your vehicle
- Filter change done in the field with a minimum of tools



**MODULAR SYSTEM FOR QUICK PROBE CHANGE**



**BELL**

Draw gas samples through asphalt and pinpoint the leak position.



**SWAN NECK**

Search uneven surfaces for gas leaks.



**FLEXI BELL**

For simple survey, adapts to pipe geometry.



**FLEXIBLE EXTENSION**

Search in hard-to-reach areas with hand probe flexible extension.



**BAR HOLE PROBE**

Perform bar hole tests, when needed, with the lightweight bar hole probe and the automatic bar hole function.



**MONO-WHEELER CARPET PROBE**

Walk on a curb following exactly the crack between stone and asphalt.



# The IRwin intelligence

In order to avoid misleading measurements or false alarms, IRwin features an infrared sensor in combination with a special gas filter (patent pending). It even prevents interference from water vapor, ethanol or exhaust gases.



OPERATING MODES	DETECTOR MODELS				
	IRwin S	IRwin SX	IRwin SXT	IRwin SXG	IRwin SXGT
Universal Mode (from 1ppm to 100Vol%)	■	■	■	■	■
★ Ex		■		■	
📊 GC Analysis				■	■
☠️ Ex Tox			■		■

## SPECIFICATIONS

Ex classification	Ex II 1G, Ex ia IIC T3 Ga (Zone 0)
Intrinsically Safe	Class I, Division 1, Groups A, B, C and D
Detectable gases	See "Ordering information" below
Measurement range	1 ppm to 100% CH <sub>4</sub>
Charging time	100% in 4 h (3h in fast charge mode)
Operating time	> 8 h
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 (without locking mechanism)	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
Bar Hole Probe, for 13–18 mm (0.5–0.7 in.) holes diameters	580-115
Swan Neck Probe	580-120
Extension Connector	580-220
Harness	580-405
Transport Case	580-450

For more accessory and spare parts visit [www.inficon.com](http://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 Accessories Kit	580-712**

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

\*\* Kit including rod, rod extension, extension connector, carpet, bell, bar hole probe, filter kit and transport case.



[www.inficon.com](http://www.inficon.com) [reachus@inficon.com](mailto:reachus@inficon.com)

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

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