



# IRwin<sup>®</sup>

Methane Leak Detector

**INNOVATIVE METHANE DETECTOR SYSTEM  
FOR EASY SURVEY OF GAS PIPELINES**

# Innovation is a matter of difference

## INNOVATIVE INSTRUMENT AND PROBE SYSTEM

IRwin® is a portable, certified intrinsically safe gas detector, 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 regional and national certificates.

IRwin and its accessories, such as an ergonomic carrying and probe system, have been designed and developed for mobile use in demanding conditions.

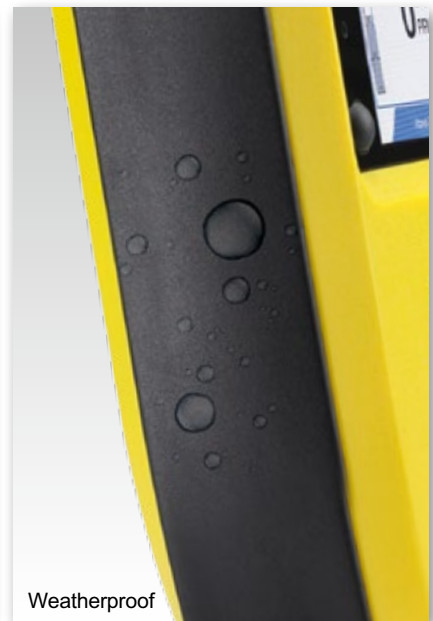
In particular, its modular probe system limits the number of extra items needed to be carried by the operator during pipeline survey. Thanks to practical quick fittings, the user can always apply the correct probe for the specific working situation. The carrying system is designed for optimized ergonomics and good weight distribution.

## IRWIN SENSOR TECHNOLOGY

The integrated proprietary infrared sensor system (patents pending) has a very short reaction and recovery time. The system prevents false leak alarms and ensures correct and fast leak evaluation. The specially developed GC and sensor combination allows fast distinction between marsh gas and natural gas from all known natural gas sources.

## FEATURES AND BENEFITS

- Methane-specific measurement with IR-technology
- High sensitivity, quick reaction and short recovery time (improved IR sensor technology)
- 100% distinction between natural gas and marsh gas
- Light and easy to move around for maximum ergonomics
- Measurements possible even in tough environments (robust housing)
- Wireless communication system for easy data transfer
- Integrated GPS chip allows reliable survey tracking
- Weatherproof (IP54)



# Ergonomic equipment and easy-to-handle probe system

**DURABLE CONSTRUCTION FOR USE IN TOUGH ENVIRONMENTS**



**CLEAR AND EASY-TO-READ DISPLAY FOR A SMOOTH SURVEY IN BRIGHT LIGHT**



**SMALL AND ROBUST HAND PROBE FOR QUICK SURVEY IN HARD-TO-REACH AREAS**



**MONO-WHEELER CARPET PROBE FOR EASY SURVEY OF LARGE SURFACES (PATENT PENDING)**



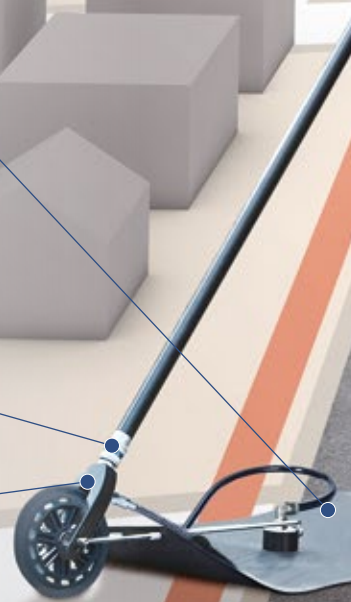
**BELL PROBE, DESIGNED FOR EFFICIENT DETECTION OF GAS ON ALL SURFACES (PATENT PENDING)**



**MODULAR PROBE SYSTEM FOR QUICK CHANGE TO APPROPRIATE PROBE**



**QUICK LOCKING CARPET FOR EASY LIFTING (PATENT PENDING)**



“The modular system of IRwin makes it easy to adapt to different surfaces and situations.”



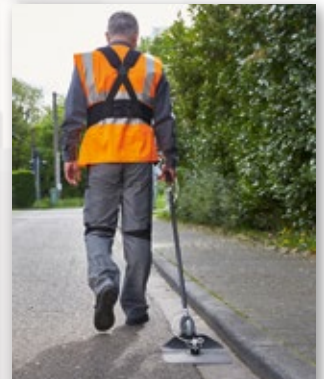
Lifting the carpet probe over a fence showing the fork-to-carpet locking mechanism.



With a twist of the wrist you can turn the Carpet Probe backwards and easily search under cars or other obstacles.



Walking on a curb following exactly the crack between stone and asphalt, thanks to the Mono-wheeler Carpet Probe.



Showing the flexibility to pull the Carpet Probe behind you instead of pushing it in front of you.



Stopping the Carpet Probe an extra second on top of manhole covers without interrupting your walking pace.

# Innovation is a matter of detail


## 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 gas.











Our advanced sensor technology also allows quasi-real-time (<15 s) differentiation between marsh gas and natural gas in most cases. Very low ethane concentrations can be analyzed with the unique built-in GC.



DETECTOR MODELS	IRwin S	IRwin SX	IRwin SXT	IRwin SXG	IRwin SXGT
Inspection above ground	■	■	■	■	■
Measuring in bar holes	■	■	■	■	■
Enclosed spaces		■	■	■	■
House		■	■	■	■
Measuring gas purity		■	■	■	■
Explosion warning		■	■	■	■
Ethane analysis (GC)				■	■
Warning ExTox			■		■

TECHNICAL DATA	
Ex classification	ATEX  II 1G, Ex ia IIC T3 Ga (Zone 0)
Detectable gases	See under „Ordering information“ below
Measurement range	1 ppm to 100% CH4
Charging time	100% in 4 h (3h fast charge)
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	ca. 1.6 kg (3.5 lb.)

ORDERING INFORMATION	
Name	Part no.
IRwin S	580-000*
IRwin S kit (Methane and Carbon dioxide)	580-001**
IRwin SX	580-010*
IRwin SX kit (Methane and Carbon dioxide)	580-011**
IRwin SXT	580-015*
IRwin SXT kit (Methane, Carbon dioxide, Oxygen, Hydrogen sulfide and Carbon monoxide)	580-016**
IRwin SXG	580-020*
IRwin SXG kit (Methane, Carbon dioxide, Ethane, Propane and Butane)	580-021**
IRwin SXGT	580-030*
IRwin SXGT kit (Methane, Carbon dioxide, Ethane, Propane, Butane, Oxygen, Hydrogen sulfide and Carbon monoxide)	580-031**
* Methane Leak Detector with hand probe, 1.5 m hose, bag, shoulder strap, adapter for charging, car adapter for charging.	
** Methane Leak Detector with hand probe with 1.5 m hose, rod, rod extension, carpet, bell, bag with shoulder strap, carrying case, filter kit, adapter for charging, car adapter for charging.	

COMPLETE ACCESSORIES		
Mono-wheeler Carpet Probe	580-210	
Bell Probe	580-300	
ACCESSORY PARTS		
Carpet	580-211	
Bell	580-301	
Hand Probe	580-100	
Rod	580-150	
Rod Extension	580-160	
Bag incl. Shoulder Strap	580-402	
Transport Case	580-450	
Mat	581-127	
Harness	580-400	