

Gas-Pro TK

Portable Detector for Tank Gas Monitoring



- Gas purge check specialist
- Auto-ranging dual IR
- Compact
- For methane, propane and butane

Gas-Pro TK

Dual Range Portable Monitor for Tank Gas Monitoring

When lives and property are at risk and you need gas detection equipment that is totally reliable, you need Crowcon. For over 45 years, Crowcon has been developing and manufacturing high quality products with a reputation for reliability and technical innovation.

Crowcon provide both single gas and multigas monitors for personal safety and portable monitoring applications providing protection against a wide range of industrial gas hazards.



Choosing the portable gas detector to meet your needs

Gas-Pro TK – the Tank Gas specialist

Hydrocarbons stored in inerted environments create a particular flammable gas detection challenge, whether during transport at sea or storage on shore. Gas-Pro TK dual range portable monitor is designed for use in this specialist environment where standard gas detectors just won't work, whether tank purging or gas freeing.

Gas-Pro TK is ideal at any flammable gas concentration, and it uses the best sensor technology to reliably monitor inerted tank environments - dual IR.

- not inhibited by high hydrocarbon concentrations, unlike catalytic bead sensors
- measures gas in high %vol as well as %LEL concentration, which single IR sensors can't
- auto-ranges, switching between %vol and %LEL measurement to always measure against the correct parameter



Gas-Pro TK keeps you up to speed with oxygen levels in the tank; telling you when they are

- low enough to load and store fuel safely
- high enough for safe tank entry

Tanks can be sampled quickly from their top, middle or base, due to an integrated pump which draws samples through a line up to 30 metres long.

At 340g, it is light enough to clip to your belt, overalls, or a Gas-Pro harness, so it's easy for the technician to keep with them during their working day.

Tank check functionality summary	
Tank specialist	• Designed to perform in the challenging inerted tank environments
Dual IR sensor	• Detects the spectrum of possible flammable gas concentrations from high %vol to low %LEL • Auto-ranges, switching between %LEL and %vol as gas concentration demands • Notifies you of auto-ranging as it happens
Monitors oxygen	• Know when it's safe to load fuel • Know when it's safe for operators to enter
High H ₂ S sensor option	• Understand possible risks if gases vent during purging • Helps inform you of potential risk from pyrophores
Alarms disabled (only in tank check mode)	• High gas levels are to be expected, so alarms can be misleading and annoying
Automatic flow plate recognition	• Integrated pump turns on as soon as the flow plate is applied • Tank samples can be drawn from up to 30m long



Personal protection monitor

Gas-Pro TK is an extension of the Crowcon Gas-Pro range. Therefore, in addition to its superb Tank Check capabilities, it also offers the full personal gas detection and confined space pre-entry check functionalities provided by other Gas-Pro units. Gas-Pro TK units are black, so you can easily tell them apart from other Gas-Pro in your detector fleet.

As an additional, important safety feature, before it can be returned to Tank Check mode, Gas-Pro TK demands confirmation that the user understands that by doing so, they have disabled the alarms.

Safety	
Mode indication	• clearly indicates when in Tank Check mode, avoiding potential confusion
Confirmed alarm status	• In Tank Check mode, alarms are disabled. You must acknowledge this before you can proceed.
Simple single button operation	• Simple one-handed operation • Easy to learn and remember • Easy to use while wearing gloves
Black	• Part of the Gas-Pro range of detectors, Gas-Pro TK units are black to avoid any possible confusion

Personal monitor functional summary	
Personal gas detector	• Gas-Pro TK has full Gas-Pro functionality, so can double up as a personal detector, as required • Full range of alarms is enabled; audible (>95dB); visual (red and blue flashing LED; tactile (vibrating)
Confined space pre-entry check function	• Assists you through the pre-entry check process

Specifications

Size		43 x 130 x 84mm (1.7 x 5.1 x 3.3in)
Weight		340 g (11.9 oz)
Alarms	Audible	95 db
	Vibrating	Integrated
	Visible	Red and Blue LEDs
Display		Bright top mounted display can be viewed while worn
Logging	Data	125h data @ 10s intervals
	Events	1000
Battery	Rechargeable Li-ion	13 hour typical runtime (4 sensors, pump running) 7.5 hour recharge
Sampling		Internal pump with 30m draw
Environment	Operating temperature	-20 to +55°C (-4°F to +131°F)*
	Humidity	10-95% RH non-condensing
	Ingress protection	Independently tested to IP65 and IP67
Compliance		EMC 2014/30/EU ATEX 2014/34/EU
Approvals	ATEX	Ex II 2 G Ex d ia IIC T4 Gb Tamb -20°C to +55°C
	IECEX	Ex d ia IIC T4 Gb Tamb -20°C to +55°C
	UL	Gas detector use in hazardous locations Class 1 Div 1 groups A,B,C,D only as to intrinsic safety
	INMETRO	Ex d ia IIC T4 Ga Tamb -20°C to +55°C
	MED	
Accessories included		Integrated Alligator clip and tethering loop Calibration plate

* The CO, H S and O₂ sensors are not rated for continuous operation at high temperatures. Consult Crowcon if operating temperatures are likely to exceed 50°C (122°F) for extended periods.

Gas	Range	Resolution
Oxygen (O₂)	0-25% vol.	0.1% vol.
Methane	0-100% LEL / 0-100% vol	1% LEL / 1% vol
Propane	0-100% LEL / 0-100% vol	1% LEL / 1% vol
Butane	0-100% LEL / 0-100% vol	1% LEL / 1% vol
Hydrogen sulphide (H₂S)	0-100ppm 0-1000ppm	1ppm
Carbon monoxide (CO)	0-500ppm 0-2000ppm 0-2000ppm (H ₂ filtered)	1ppm

Accessories



Water trap



Ball float probe



Charger cradle



Pumped flow plate



USB communications lead

 **Lana Sarrate s.a.**

P. Manuel Girona, 2 - 08034 Barcelona
T- 93 280 01 01; F- 93 280 01 01

www.lanasarrate.es
lanasarrate@lanasarrate.es