

Tank-Pro



Portable Detector for Tank Gas Monitoring



- Multiple sensor options
- User friendly
- Reliable
- Adaptable
- Dedicated tank/pipe monitoring function



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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 monitoring and portable safety applications providing protection against a wide range of industrial gas hazards.



Tank-Pro - the best solution

Tank-Pro integrates innovative safety features with a rugged design to provide advanced protection for those working in harsh environments. This portable multigas detector, which is exceptionally easy to use and service, protects against the four most prevalent gas hazards: carbon monoxide (CO), hydrogen sulphide (H₂S), flammable gases and oxygen (O₂) depletion or enrichment. Tank-Pro is a tool for monitoring the inerting or filling of tanks/ pipes as well as being a personal multigas monitor for users.

What is an inert space?

An inert space is a space that has been purged with nitrogen or other gas mixtures that don't contain oxygen. Spaces containing a petroleum-based product and empty product storage spaces are two of the main examples of an inert space. Purging these spaces prevents the accumulation of a flammable mixture.

The Fire Triangle

For a flammable mixture or fire to exist, there are three necessary components – fuel, oxygen, and ignition or heat. If you remove oxygen from the space, it removes the possibility of fire even if flammable gases or vapours are present. Basically: no oxygen = no explosion.

What type of detector should I use for monitoring inert spaces?

The most common type of detector used to test for flammable gases is a catalytic type sensor, which senses combustible gases at LEL levels. This type of sensor needs oxygen to function – so if there isn't any, or it's at a low level, it won't work. Infrared sensors are better suited to this environment as they don't require oxygen to function.

With its dual infra-red sensors and ability to check tanks both full of hydrocarbon and fully purged, Tank-Pro meets the unique challenges presented by inert spaces.

Detecting the danger with dual infra-red

Tank-Pro employs the best sensor technology to reliably monitor inert spaces - dual infra-red (IR). IR sensors are not inhibited by high hydrocarbon concentrations and don't require oxygen to work. Unlike single IR sensors, the dual nature of this sensor enables it to cope with gas in high %vol as well as %LEL concentrations. An integrated pump quickly draws samples from lines up to 30 metres long, so tanks and pipes can be checked quickly and efficiently.

Tank-Pro contains a wide range of features to make everyday use safer and easier

As a portable multigas detector...

Rugged design

A durable outer enclosure and robust design protects Tank-Pro from drops and knocks during normal use, and it's water and dust resistant to IP65 & IP67.

Intrinsically safe

ATEX approved and UL Class 1 Div 1 for operation in a wide range of hazardous environments.

Light and compact

Tank-Pro weighs 340g and is one of the lightest tank checking products on the market. It's light enough to be clipped to a belt or overalls, and can also be carried over the shoulder.

Dedicated sensors

One sensor for every gas ensures effective, fast and reliable detection.

Multiple alarms

Audible 95dB alarm, bright red/blue LEDs and vibrating alerts provide effective warning to gas hazards.

Backlit display

A bright, clear top mount display makes it easy to read at a glance.

Easy operation

Large single button and intuitive menu system minimise training and allow easy operation whilst wearing gloves.

13 hour battery life

Safely work multiple or longer shifts between charges, covered by the 13 hour battery life.

As a tank and pipe checker...

Integrated pump

This rapidly draws samples from lines up to 30 metres long, so tanks and pipes can be checked quickly.

Specific tank mode

Auto-ranging flammable has level readings and inhibited toxic/oxygen alarms ensure the user is focused on the task at hand.

Dual use

Doubles up as a portable monitor and tank or pipe tool.



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
Accessories included		Integrated Alligator clip and tethering loop Calibration plate

* The CO, H₂S 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 (O ₂)	0-25% vol.	0.1% vol.
Flammable	0-100% LEL / 0 - 100% vol	1% LEL / 1% vol
Hydrogen sulphide (H ₂ S)	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

CONTRONIX®
CROWCON SERVICE-PARTNER

Vertrieb+Service Österreich:
CONTRONIX® ▪ 3911 Rappottenstein, Grünbach 30 ▪ Austria
 T: 0820 988 766 ▪ T: +43 2828 7596-0 ▪ F: +43 2828 7596-18
 E: office@contronix.net ▪ W: www.contronix.net