

CROWCON
Detecting Gas Saving Lives

Gas-Pro TK

Specialized Personal
Tank Monitor with
Dual-Range Sensor

Powerful

Flexible

Professional



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.



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 in tank 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 98.4ft |

Safety

| | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode indication | Clearly indicated 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 |
| Light | At 12oz, 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 |
| 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 are 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 |

More gas types will be available - contact Crowcon with your requests.

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.

Gases and ranges

| Gas | Range | Resolution |
|--------------------------------------|--------------------------------------------------------------------|-----------------|
| Oxygen (O ₂) | 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 (H ₂ S) | 0 -100ppm 0 - 1000ppm | 1ppm |
| Carbon Monoxide (CO) | 0 - 500ppm 0 - 2000ppm 0 - 2000ppm (H ₂ filtered) | 1ppm |

Specification

| | | |
|----------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 battery | 13 hour typical runtime (4 sensors, pump running) 7.5 hour recharge |
| Sampling | | Internal pump with 98.4ft 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 Marine Equipment Directive 2014/90 EU MED1500009  |
| Approvals | ATEX | Ex II 2 G Ex db ia IIC T4 Gb Tamb -4°F to +131°F |
| | IECEx | Ex db ia IIC T4 Gb Tamb -4°F to +131°F |
| | UL | UL: Class 1 Div 1, Groups A, B, C, D, UL 913, UL 60079-0 and UL 60079-11 |
| | INMETRO | Ex db ia IIC T4 Ga Tamb -4°F to +131°F |
| 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.