PORTABLES

DETECTIVEIQ

Configurable Area Monitor for Temporary Worksites

A rugged multi-gas detector with industry-leading battery life, modular sensors, and seamless connectivity for enhanced safety.

DetectiveIQ is designed to meet the demands of today's dynamic and temporary worksites, including turnaround/shutdown procedures, hot work maintenance, confined space entry, and hazardous environments where fixed detectors are impractical. With an industry-leading battery life, real-time gas detection for up to 7 gases, and a robust design, DetectiveIQ provides continuous protection for your workforce. Seamlessly integrated into Crowcon's portable ecosystem, it provides a complete safety solution that enhances compliance and operational efficiency.

FEATURES & BENEFITS

Unmatched battery life

Up to 15 weeks of runtime on a single charge (longer than any area monitor in its class), with quick recharging in just 8 hours, ensuring minimal downtime.

Real-time gas detection

Simultaneously detects up to 7 gases in real time with fast T90 response times of <20 seconds for key gases. Interchangeable gas sensor slots support electrochemical, PID, infrared, MPS, pellistor and long-life O_2 sensors.

Effortless servicing

DetectiveIQ simplifies servicing with minimal parts and screws, making it easy to replace the outer casing, boot, and handles. The pull-in, pull-out modular sensor tray ensures quick maintenance and reduces downtime.

Flexible monitoring & extended sampling

Ideal for perimeter monitoring and temporary worksite protection. Supports fenceline deployment with up to 25 interconnected devices and an optional pumped module for gas sampling up to 30m (100ft).

Wide-area alarm passing with Bluetooth Mesh

DetectiveIQ's built-in alarm passing uses Bluetooth® Mesh technology to connect up to 250 devices across 10 groups. Each group of 25 devices covers 2.5 km, with 100m spacing between units.

Built to endure – and it floats

Rated IP66 and IP68 for water and impact resistance, ensuring reliability in harsh environments. Certified for explosive atmospheres: ATEX/IECEx Zone 0 and CSA C1D1, making it suitable for hazardous areas.

Modern, user-friendly interface

DetectiveIQ's modern user interface delivers real-time gas readings with a dynamic display that updates based on active channels (1 to 8). Clear color-coded alerts shift from green to red, ensuring quick hazard recognition. Intuitive three-button navigation simplifies operation.

High-visibility alerts & wide temperature range

Equipped with a high-volume alarm sounder and bright alert lights to immediately warn workers of gas hazards. Operates effectively in extreme conditions, from -20 to +55°C (-4 to +131°F).

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DETECTING GAS. **SAVING LIVES.**

SPECIFICATIONS

DEVICE SPECIFICATIONS	
SIZE	298 x 536 x 268mm
WEIGHT	8.1kg
MATERIAL	ASA & Pebax
RESPONSE TIME (T90)	<20s
ALARMS	Visual, audible (97dB at 30cm), low/high, TWA, STEL
DISPLAY	Color LCD display
DATA LOGGING	Up to 8640 event logs
POWER & BATTERY	101+ days
SAMPLING	Up to 30m sampling with optional pumped module
OPERATING TEMPERATURE RANGE	-20 to +55°C / -4 to +131°F
HUMIDITY	0-95% RH
INGRESS PROTECTION	IP66 and IP68
APPROVALS	CSA US: Class I, Division 1, Groups* A, B, C, D, Ex ia da IIC T4 ATEX: Ex II 1G Ex ia da IIC T4 G IECEx: Ex ia da IIC T4 Ga INMETRO: Ex ia da IIC T4 Ga* RED/FCC/IC: Wireless
CALIBRATION & MAINTENANCE	6 monthly calibrations
ACCESSORIES	Bump flow plate; Pumped flow plate; Communication cable; Power cable; Water trap & tubing (pumped device kit)
CONNECTIVITY	Bluetooth® & Mesh for connection to Crowcon Connect App
CROWCON CONNECT	Cloud-hosted web application for safety monitoring and asset management, offering real-time alarms, compliance dashboards, location tracking, device configurations, and essential reporting
SENSORS	Electrochemical, IR, MPS™, Pellistor, PID and Long life O_2
LANGUAGES	English
WARRANTY	2 years (sensor warranty separate)

*Certification: Pending

GASES & RANGES		
GAS	RANGE	RESOLUTION
Carbon Monoxide	0-500ppm	1ppm
Carbon Monoxide (CO) and Hydrogen Sulfide (H_2S)	0-500ppm CO 0-100ppm H_2S	1ppm CO 0.1ppm H_2S
Carbon Dioxide	0-5% volume	0.1% volume
Hydrogen Sulfide	0-100ppm	0.1ppm
Methane	0-100%LEL	1% LEL
MPS ATEX - 5Pin	0-100% LEL	1% LEL
MPS UL - 5Pin	0-100% LEL	1% LEL
Oxygen	0-25% volume	0.1% volume
Propane	0-100% LEL	1% LEL
VOC	0-2000ppm	1ppm

Disclaimer
Due to ongoing research and product improvement, specifications are subject to change without notice. While every effort has been made to ensure accuracy in this document, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This document is not intended to form the basis of a contract.

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