

DUOIQ

Dual-Gas Monitor with Advanced Modular Sensor Technology

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



DuoIQ is a compact, dual-gas monitor designed to provide workers with versatile, reliable protection against multiple hazards. Built with the industry's longest rechargeable battery life and every major sensor technology, DuoIQ provides safety in environments where detecting two gases is critical but equipment size and cost need to be optimised.

FEATURES & BENEFITS

Dual-gas detection

The only dual-gas detector with the capability to detect a wide range of gas combinations, providing flexibility for diverse applications without the need for bulky, multi-gas devices.

Longest rechargeable battery life

DuoIQ boasts the longest battery life of any dual-gas monitor, reducing recharge frequency and operational downtime. It offers up to 60 days of continuous operation (120 days at 8-hour shifts) for toxic gas and oxygen detection - meaning it only requires charging four times in two years* - plus quick recharge times (<4 hours) to maximise runtime.

Pre-calibrated sensor trays

DuoIQ's sensor trays are easy to swap, eliminating the need to send the device back to the manufacturer for maintenance. Additionally, the plug-and-play modular design provides flexibility to target different gases.

Comprehensive sensor technology

DuoIQ features unique sensor combinations, made possible by its wide variety of sensor technologies, including electrochemical, infrared (IR), molecular property spectrometer (MPSTM), pellistor, and long-life oxygen (O₂) sensors.

Optimised for safety & compliance

DuoIQ integrates seamlessly with Crowcon Connect for real-time monitoring, compliance tracking, and asset management, improving safety and ensuring regulatory requirements are met. Effortlessly store and retrieve calibration certificates in Crowcon Connect to simplify audits.

Lightweight, compact design

With its compact design, DuoIQ delivers reliable performance in a lightweight form - measuring just over 10cm in height and weighing only 135g**, ensuring portability and ease of use.

Bluetooth® & NFC connectivity

With Bluetooth® and Near Field Communication (NFC) connectivity, DuoIQ can push data to Crowcon Connect via IQhub. This enables live data streaming, remote configuration, and detailed insights for enhanced safety and device performance.

One button for multiple functions

Single-button operation simplifies the user experience with quick, intuitive control, reducing complexity and learning curves, while making the device more widely accessible.



SPECIFICATIONS

DEVICE SPECIFICATIONS	
SIZE	Standard: 96 x 55 x 32 mm Deep tray: 106 x 55 x 32 mm
WEIGHT**	135g (Weight may vary depending on configuration)
DURABILITY	6m drop test
RESPONSE TIME (T90)	<10s (sensor dependent)
ALARMS	Visual, vibrating, audible (95dB at 10cm), low/high, TWA, STEL
DISPLAY	Backlit segment display
DATA LOGGING	Up to 500 event logs
POWER & BATTERY*	Tox / O2 tox : 60 days continuous, (6 months at 8 hour shifts) Tox / O2 IR: 32 days (3 months at 8 hour shifts) Tox / O2 MPSTM: 20 days (2 months at 8 hour shifts) Tox / O2 Pellistor: 24 hours continuous Recharge time <4 hours
SAMPLING	None
OPERATING TEMPERATURE RANGE	-20 to +55°C / -4 to +131°F
HUMIDITY	0-95% RH
INGRESS PROTECTION	IP66 & IP68
APPROVALS***	CSA US: Class I, Division 1, Groups A, B, C, D T4 ATEX: Ex II 1G Ex ia IIC T4 Ga IECEX: Ex ia da IIC T4 Ga INMETRO: Ex ia IIC T4 Ga RED/FCC/IC: Wireless
CALIBRATION & MAINTENANCE	Automatic bump tests (<10 seconds) and calibrations (<30 seconds) through IQhub; Manual bump and calibrations through device and PC software
ACCESSORIES	Power cable (device to USB-A & USB-C); Flow plate; IQhub
CONNECTIVITY	NFC & Bluetooth® (optional) required 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, MPSTM, Pellistor, PID and Long life O
LANGUAGES	English
WARRANTY	2 years (sensor warranty separate)

***Certification: Pending

GASES & RANGES		
GAS	RANGE	RESOLUTION
Ammonia	0-100ppm	0.1ppm
Ammonia	0-1000ppm	1ppm
Butane	0-100% LEL	1%LEL
Carbon Monoxide	0-250ppm	1ppm
Chlorine	0-10ppm	0.01ppm
Hydrogen	0-40000ppm	400ppm
Hydrogen Sulfide	0-100ppm	0.1ppm
Methane	0-100% LEL	1%LEL
Nitrogen Dioxide	0-20ppm	0.1ppm
Oxygen	0-25%	0.1% volume
Ozone	0-1ppm	0.01ppm
Sulphur Dioxide	0-20ppm	0.1ppm

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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