

WatchGas Defender

GAS DETECTION SYSTEM

The WatchGas Defender is a scalable multi-zone gas detection controller designed for reliable monitoring across commercial and industrial environments.

Combining broad sensor compatibility, configurable alarm relays, clear local status indication and CANbus integration, the WatchGas Defender provides flexible gas monitoring for standalone and networked systems.

Features and Benefits

Multi-Zone Gas Monitoring

Supports 1–4 zones, with up to 16 sensors standard and up to 64 sensors with an additional power supply, allowing the system to scale with the application.

Wide Sensor Compatibility

Supports catalytic, electrochemical, infrared, PID and semiconductor sensor technologies, enabling monitoring of flammable gases, toxic gases, oxygen and refrigerants.

Flexible Alarm Control

Four selectable relays can be configured for zone-specific or global alarms, supporting Alarm 1, Alarm 2, Alarm 3 and fault functions.

Clear Local Status Indication

Red and amber LEDs, audible alarms and display messages provide clear indication of alarm, fault and inhibit conditions for fast operator awareness.

Expandable Network Integration

CANbus communication allows the Defender to connect with the WatchGas COMBI system, while network-monitoring options support multiple Defender panels in larger installations.

Robust Industrial Design

The IP65 polycarbonate enclosure and broad operating range make the Defender suitable for demanding commercial and industrial environments.

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Product Specifications

Specification	WatchGas Defender
Sensors	1–4 zones, 1–16 sensors standard Up to 64 sensors total, 16 per zone, with additional power supply
Measurements	Flammable gas: LEL / % vol Toxic gas: ppm / % vol Oxygen: % vol, depletion / enrichment Refrigerant: ppm Any 4–20 mA transmitter
Sensor Types	Catalytic, Electrochemical, Infrared, PID, Semiconductor
Relays	Four selectable relays, S.P.C.O., 3 A @ 230 VAC N/E or N/D, latched / unlatched Each zone: A1 / A2 / A3 or A2 / A3 only, or Global for Zones 1–4
Sensor Cable	3-core, 1 mm^2 Maximum cable length: 200 m × 4
Power Supply	115/230 VAC and/or 24 VDC ±15% 50/60 Hz
Power Consumption	3 W at full alarm
Panel Indication – Alarm	Red LED / sounder Display text: A1, A2, A3
Panel Indication – Fault	Amber LED / sounder Display text: Flt (Fault)
Panel Indication – Display	Alarm/fault indication + 4-line user text
Panel Indication – Inhibit	Amber LED Display text: Inh (Inhibit)
Audible Alarm	Internal 85 dB @ 30 cm
Open Collector Output	100 mA @ 24 VDC, follows internal sounder operation
Digital Communication	CANbus (when used with the WatchGas COMBI Controller)
Operating Temperature	–10 to +50°C
Storage Temperature	+5 to +55°C
Humidity	0–95% RH, non-condensing
Ingress Protection	IP65
Dimensions	200 × 150 × 80 mm
Weight	920 g
Enclosure Material	Polycarbonate
Standards	EMC: BS EN 50270 Low Voltage: BS EN 61010-1

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WatchGas Defender Safe-Area Sensor

Specification	WatchGas Defender Sensor
Area Classification	Not for use in potentially explosive atmospheres / zoned areas
Measurements	Flammable gas: LEL / % vol Toxic gas: ppm / % vol Oxygen: % vol, depletion / enrichment Refrigerant: ppm Any 4–20 mA transmitter
Sensor Types	Catalytic, Electrochemical, Infrared, PID, Semiconductor
Relays	1 × S.P.C.O., 3 A @ 230 VAC Global A1 / A2 / A3 A2 / A3 only option Latched / Unlatched Selectable N/E – N/D
Power Supply	18–30 VDC, 24 V nominal Optional 90–260 VAC mains
Power Consumption	1.2 W at full alarm
Indicators	Power: Green LED Gas Alarm: Green LED to Red A1: Slow Flash A2: Rapid Flash A3: Constant Fault: Amber
Audible Alarm	85 dB @ 10 cm
Operating Temperature	–10 to +50°C
Storage Temperature	+5 to +55°C
Ingress Protection	IP42 – Standard IP64 – Weatherproof
Dimensions – Standard	83 × 83 × 36 mm (H × L × D)
Dimensions – Weatherproof	145 × 145 × 60 mm (H × L × D)
Options	Surface Mount – Standard Surface Mount with Duct Mount Probe Surface Mount – Weatherproof Duct Mount (Probe) – Weatherproof Duct Sensor Probe – 27 × 28 mm diameter

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Accessories



Auxiliary Power Supply
11A for 35+ sensors



Defender Power Supply
2.5A for 16–35 sensors



Stand Alone Sensor Power Supply

Controllers



COMBI Series System



404+ Remote Monitoring System



WatchGas 102

Other Fixed Detectors



LEL Point 1000
Flammable Gas Detector



LEL Point 2000
Flammable Gas Detector



TOX Point 1000
Oxygen & Toxic Gas Detector



TOX Point 2000
Oxygen, Toxic & VOC Gas Detector



NDIR Point 3000
Infrared Gas Detector



Multi Point
Universal Multi-Gas Detector

Beacon & Sounders



Beacon Sounder



Beacon Sounder ATEX

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