

WATCHGAS 102

DUAL SENSOR GAS ALARM

The WatchGas 102 is a versatile dual-channel gas alarm controller designed for reliable monitoring across a wide range of commercial and industrial applications.

Combining flexible sensor inputs, clear local status indication, configurable alarm relays, data logging and 4–20 mA/CANbus communication, the WatchGas 102 provides effective standalone or networked gas monitoring.

Features and Benefits

Dual-Channel Gas Monitoring

Supports two detector channels, with one mV bridge input and one 4–20 mA input. This allows two sensing points or technologies to be monitored from a single controller.

Clear Status & Alarms

A two-line backlit display provides gas information and uses green/blue, red and amber indications for normal, alarm and fault conditions. This gives operators quick, clear visibility of detector status.

Flexible System Integration

4–20 mA output and CANbus communication allow the WatchGas 102 to operate as a standalone controller or as part of an addressable gas detection network.

Comprehensive Alarm Control

Three alarm stages plus fault indication, configurable relays and selectable alarm delays provide flexible control of external alarms and safety equipment.

Integrated Data Logging

Stores up to 2,880 readings with selectable logging intervals and rollover or stop modes, supporting monitoring, review and system diagnostics.

Flexible Sensor Options

Supports catalytic, electrochemical, infrared, PID and semiconductor sensing technologies, with internal, remote and aspirated sensor configurations available depending on the installation. This makes the WatchGas 102 suitable for a broad range of gas monitoring applications.

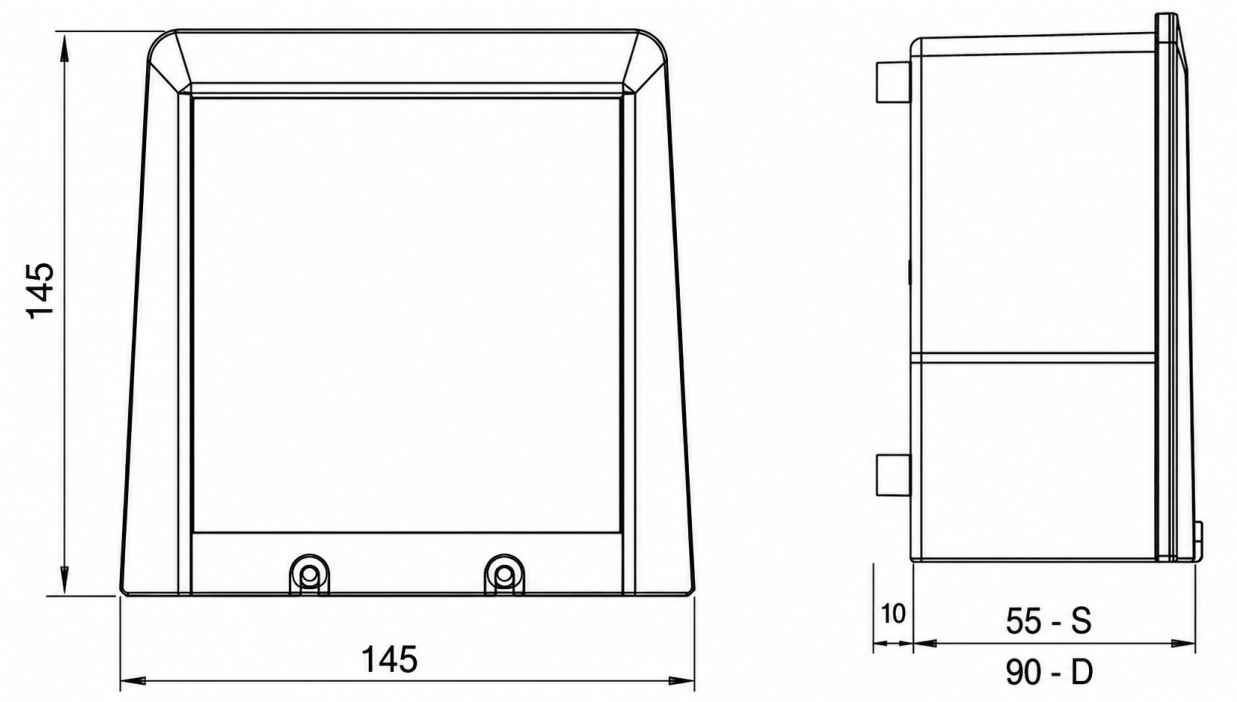
WatchGas B.V. Klaverbaan 121, 2908 KD, Capelle aan den IJssel, The Netherlands info@watchgas.com www.watchgas.com
WatchGas Inc. 313 N. State Highway 342 Red Oak, TX 75154, USA info@watchgasusa.com www.watchgasusa.com

Product Specifications

Specification	WatchGas 102
Detector Channels	2 channels
Channel 1 Input	mV bridge, 3-wire direct detector
Channel 2 Input	4–20 mA analogue transmitter signal, source
Supported Sensor Technologies	Catalytic, Electrochemical, Infrared, PID, Semiconductor
Power Supply	18–30 VDC, 24 V nominal 100–240 VAC, 50/60 Hz
Power Consumption	4 W at full alarm
Analogue Output	4–20 mA, sink/source
Digital Communication	CANbus
Alarm Stages	Low, High, Overrange
Alarm Relays	4 relays: Alarm 1, Alarm 2, Alarm 3 & Fault
Relay Rating	3 A @ 230 VAC
Relay Configuration	S.P.C.O. contacts; selectable normally energised/de-energised and latched/unlatched operation. Relay 3: Selectable Global Alarm 1/2 duplication, channel-specific alarms (A1/A2/A3), timed relay, fault or resettable sounder. Relay 4: Selectable channel-specific alarms (A1/A2/A3), timed relay or resettable sounder.
Audible Alarm	85 dB @ 10 cm; mute function
Display	2-line alphanumeric backlit display
Data Logging	2,880 readings
Logging Mode	Variable intervals; rollover / stop
Alarm Delay	0–255 s
Relay Off Delay	0–255 s
Sensor Options	Internal, Remote, Aspirated Availability depends on power supply and enclosure configuration.
Operating Temperature	–15 to +50°C
Storage Temperature	–5 to +55°C
Ingress Protection	IP64; optional IP66 over housing
Dimensions	145 × 145 × 65 mm — shallow box 145 × 145 × 100 mm — deep box
Weight	0.8 kg
Cable Entry	Top, bottom, sides and rear
Field Terminals	Screw type, 2.5 mm

WatchGas B.V. Klaverbaan 121, 2908 KD, Capelle aan den IJssel, The Netherlands info@watchgas.com www.watchgas.com
WatchGas Inc. 313 N. State Highway 342 Red Oak, TX 75154, USA info@watchgasusa.com www.watchgasusa.com

Drawing



WatchGas B.V. Klaverbaan 121, 2908 KD, Capelle aan den IJssel, The Netherlands info@watchgas.com www.watchgas.com
WatchGas Inc. 313 N. State Highway 342 Red Oak, TX 75154, USA info@watchgasusa.com www.watchgasusa.com

WATCHGAS 102
DUAL SENSOR GAS ALARM

Accessories



Weatherproof Overhousing



Aspirated Sensor Unit



Auxiliary Power Supply



Emergency Stop Switches

Controllers



WatchGas Defender



COMBI Series System



404+ Remote Monitoring System

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

For more information

www.watchgas.com / www.watchgasusa.com
info@watchgas.com / info@watchgasusa.com

Distributed by:

WatchGas 102 DS VC1934 10.26 AB © 2026 WatchGas B.V.
WatchGas is dedicated to continuously improving its products. Therefore, the specifications and features mentioned in this datasheet are subject to change without prior notice.

WatchGas B.V. Klaverbaan 121, 2908 KD, Capelle aan den IJssel, The Netherlands info@watchgas.com www.watchgas.com
WatchGas Inc. 313 N. State Highway 342 Red Oak, TX 75154, USA info@watchgasusa.com www.watchgasusa.com