Leave your gas detection to the experts

Detector

and your environment is safe

VARIA

An intelligent gas detector
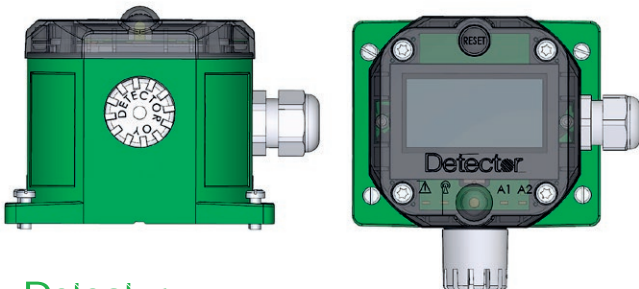
VARIA

DESIGN FROM FiNLAND ®

An intelligent gas detector developed in co-operation with users

Based on what our users had to say, we have developed a modern, user-friendly gas detector. The detector is easy to install and connect to existing automation solutions. It is also compatible with other systems. The Varia display is clear and bright. The detector may also be used as a local alarm.

Sustainable development has been taken into account in the materials chosen for the detector. The Varia detector is modular in construction and its maintenance is cost-effective. This multipurpose detector is suitable for use in any safe area, even in the most demanding industrial conditions.

The Varia is a product of Finnish design, to which the Association for Finnish Work has granted the Design from Finland mark.

Environmental specifications

Operating humidity range
(no condensation)**:** Gas specific
Air pressure: Normal
air pressure ±20%

Technical specifications

Display: 3.5" backlit display
Supported measurement detection principles:
Electrochemical, catalytic and NDIR
Output Signals: 4–20mA, 0–20mA, 2–10V, 0–10V
Fieldbus: Modbus RTU
Relay contacts: 2xrelay (230 VAC/24 VDC, 1A) freely programmable to either NO or NC. Alarm levels freely programmable.
Operating voltage: 16…36 VAC/VDC
Cabling: 4-wire (galvanically isolated supply and output) or 3-wire connection. e.g. (JAMAK 2x(2+1)x0.5mm2 or equivalent)
Power consumption:
max. 100mA/24 VDC, 350mA/24 VAC (electrochemical)
max. 120mA/24 VDC, 350mA/24 VAC (NDIR)
max. 100mA/24 VDC, 350mA/24 VAC (catalytic)
Mounting possibilities: Ceiling, wall, duct or pipe
Mounting: With 2–4 screws
IP rating: IP 54 (IP56 with Stainless steel housing)
Measurements: 121 mm x 97 mm x 101 mm
(width x height x depth)
Weight: ~420g
Housing entries: M20, max 3 pc

Varia can be connected to Seguro-Gas controller with remote monitoring capabilities.

Display & LEDs

Buzzer (80 dB)

Bluetooth

4–20mA, 0–20mA, 2–10V, 0–10V

Modbus RTU

2 x relays (230 VAC/24 VDC, 1A)

GAS	Principle of detection	Measu- rement type	Default measu- rement range	Maximum measurement range	Typical sensor replacement interval (months)	Operating temperature range	Operating humidy range (no condensation)	Reponse time T90
Oxygen(O2)	Electrochemical	%vol	25	30	18-24	-20°C–+55°C	5–95% RH	<15s
Ammonia (NH3)	Electrochemical	ppm	200	1000	24	-40°C–+40°C	15–90% RH	<40s
Hydrogen fluoride (HF)	Electrochemical	ppm	5	10	18	-40°C–+40°C	15–90% RH	<90s
Carbon monoxide (CO)	Electrochemical	ppm	300	1000	24	-30°C–+50°C	15–90% RH	<30s
Chlorine (Cl2)	Electrochemical	ppm	5	20	24	-20°C–+50°C	15–90% RH	<60s
Chlorine dioxide (ClO2)	Electrochemical	ppm	2	2	24	-20°C–+40°C	15–90% RH	<60s
Ozone (O3)	Electrochemical	ppm	1	1	24	-20°C–+50°C	15–90% RH	<60s
Sulfur dioxide (SO2)	Electrochemical	ppm	20	100	24	-30°C–+50°C	15–90% RH	<30s
Hydrogen sulfide (H2S)	Electrochemical	ppm	50	100	24	-30°C–+50°C	15–90% RH	<40s
Hydrogen chloride (HCl)	Electrochemical	ppm	20	30	24	-30°C–+50°C	15–90% RH	<200s
Nitrogen dioxide (NO2)	Electrochemical	ppm	10	20	24	-30°C–+50°C	15–90% RH	<40s
Nitrogen oxide (NO)	Electrochemical	ppm	50	50	12	-30°C–+50°C	15–90% RH	<30s
Hydrogen (H2)	Electrochemical	ppm	10 000	20 000	24	-20°C–+50°C	15–90% RH	<110s
Ammonia (NH3)	Catalytic	%LEL	100	100	60	-40°C–+65°C	0–100% RH	<20s
Hydrocarbons and other flammamble compounds*	Catalytic	%LEL	100	100	60	-40°C–+60°C	0–100% RH	<20s
Hydrocarbons and other flammamble compounds*	NDIR	%LEL	100	100	60	-40°C–+60°C	0–95% RH	<30s
Refrigerants**	NDIR	ppm	1000	10 000	60	-40°C–+60°C	0–95% RH	<60s
Carbon dioxide (CO2)	NDIR	%vol	3	50 000	60	-40°C–+60°C	0–95% RH	<60s

*E.G. acetylene, gasoline, butane, diesel, ethanol, hexane, heptane, Isopropyl alcohol, xylene, methane, methanol, pentane, propane, toluene, hydrogen

**E.G. R32, R134a, R1234yf, R1234ze, R404a, R407c, R410a

For other target gases, measuring and operating temperature ranges, please ask Detector Ltd.
www.detector.fi, tel. +358 20 7756 480

Detector

See all accessories:
detector.fi/en/products/

Carefree safety

Detector

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