



Trustworthy Certification

PROSENSE SOMA Series fixed gas detectors are certified with ATEX and IECEx.

Intrinsically Safe

SOMA Series is an intrinsically safe device that can be used for continuous measurement of toxic and explosive gases safely in hazardous areas.

Robust and Durable

It is ready to use under harsh environmental conditions with the IP65 protection class.

Accurate Readings

Infrared, Pellistor and Electrochemical sensors undoubtedly provide an accurate and sensitive measurement.

Ready to Operate

4-20mA Analog and Modbus RS485 RTU outputs are provided onboard to operate properly without any additional setup.

Easy Maintenance

SOMA Series detectors allow sensor replacement without opening the enclosure with pre-calibrated sensor head thanks to the Procell technology.

LCD Display

The LCD display is easily readable from any angle. User menu provides easy configuration.

Automatic Calibration

Detector calibration can be done automatically via preset values recorded in detector software once calibration requirements are provided.

Pellistor-Saver Mode

Detectors power off the sensor in high gas concentration in order to properly secure the operational lifetime of pellistor sensor.



Auto Analog Signal Calibration and Monitoring

SOMA Series detectors continuously check the analog output signal level to match the measurement level before promptly transferred to the panel. SOMA Series adjusts the signal level in case of any deviation and generates a fault signal when the adjustment fails.

Zero Suppression

Adjusting, the detector can show a certain measurement level as 0 (zero) to avoid unnecessary concerns.

Simple External Equipment Control

Optional relay module enables you to use it as an independent gas detection system with two arbitrarily adjustable concentration alarms and one fault alarm.

Continuous Self-Test

The detectors check itself continuously to make sure it operates perfectly and indicates a fault in case of any failure.

Adjustable Parameters

All parameters can be easily changed according to the application requirements or facility standards.

Easy Status Recognition

Colored LEDs (green, yellow and red) provide additional alarm and status information.

Maintenance via Software

Prosense provides software to maintain your active system easily and calibrate the gas detectors properly via computer.

Applications

- Mining
- •Oil&Gas
- Petrochemical
- Onshore/Offshore
- Steel-Metal Industry
- Chemical Industry
- Process Industry
- Gas Distribution Stations
- Water Treatment Plants













SOMASeries Gas Detector

Specifications	SOMA-IR	SOMA-PEL	SOMA-EEC		
Sensing Element	Infrared	Pellistor	Electrochemical		
Output Signal	4-20mA Analog 5-15 Hz Output RS485 Modbus RTU				
Sensor Warm-up Time	60sec				
Response Time (T90)	<30sec*	<25sec	<30sec**		
Accuracy	%±1				
Operating Temperature	-20°C∼+60°C**				
Humidity	0~100%RH ** Non-Condensing				
Input	12 VDC				
Display	128x64 Graphic OLED				
	3 LED indicator for detector status				
Device Parameters	Ui 14,4 VDC / li 2,37mA / Pi 9,84W				
Output Parameters	Vo 6,015 V / Io 0,2125 A / Co 886,6 uF / Lo 9.8 mH				
Optional Relay Outputs	2 Alarms (Programmable) and 1 Fault				
. ,	(Alarm relays are NO/NC adjustable and Fault Relay is set to NC)				
Cable Entry	2xM20				
IP Rating	IP65				
Enclosure	Reinforce Polymer				
Dimensions/Weight	192,75x85x56,37mm / 600gr				
ATEX Marking	Ex ia l Ma				
Hazardous Class	Zone 1 - Zone 2 - M1				
Certificates	●EPS 21 ATEX 1 094 X ●IECEx EPS 21.0031X				
Standards	• IEC EN 60079-0 • IEC EN 60079-1 • IEC EN 60079-11				

XY	Gas	Product Code	Sensor Type	Measuring Range*
31	Methane	SOMA-IR – 3135	Pellistor	0-100%LEL
31	Methane	SOMA-PEL – 3133	Infrared	0-100%LEL
36	Hydrogen	SOMA-EEC – 3634	Pellistor	0-2000PPM
44	Carbon monoxide	SOMA-EEC – 4434	Electrochemical	0-300ppm
44	Carbon monoxide	SOMA-EEC – 4434/B	Electrochemical	0-500ppm
44	Carbon monoxide	SOMA-EEC – 4434/C	Electrochemical	0-1000ppm
44	Carbon monoxide	SOMA-EEC – 4435	Pellistor	0-100%LEL
64	Hydrogen Sulfide	SOMA-EEC – 6434	Electrochemical	0-100ppm
65	Oxygen	SOMA-EEC – 6534	Electrochemical	0-25%VOL
66	Sulphur Dioxide	SOMA-EEC – 6634	Electrochemical	0-10ppm
67	Nitric Oxide	SOMA-EEC – 6734	Electrochemical	0-250ppm
68	Nitrogen Dioxide	SOMA-EEC – 6834	Electrochemical	0-30ppm
71	Carbon Dioxide	SOMA-IR – 7133	Infrared	0-5000ppm
71	Carbon Dioxide	SOMA-IR – 7133/B	Infrared	0-5%VOL

^{*} Please consult Prosense sales team for specific measuring ranges and other gases those are not listed here.

For more information please contact with info@prosense.com.tr



**Sensor dependent.









