

E2639

Ammonia Detector



Standalone and multifunctional

E2639 is a next-generation product developed to deliver reliable detection of toxic and combustible gases in a wide range of market sectors such as:

- HVAC/R
- Agriculture
- Food and beverage
- Healthcare and laboratories
- Process industries

The detector is based on the unified PluraSens® Platform having RS485 Modbus RTU and $2 \times 4-20$ mA outputs offering customers different possibilities for communication with controllers and SCADA systems.

E2639 is also equipped with 3 x SPDT relays (2 for alarms, 1 for fault) accompanied with 4 x LEDs and a buzzer for better safety and visual, audible indication.

Most of known sensing technologies are implemented providing a possibility to detect more than 20 different gases and gas groups.



Convenience of use

User-oriented installation

E2639 is equipped with **3 x M20 cable glands** and **duplicated terminals** for time saving during installations.

Enclosure design includes “ears” on sides making mounting of the detector easier.

Multiple calibration possibilities

Optional **WiFi module** gives a possibility of connection to a smartphone or tablet PC for convenient calibration and configuration.

No additional apps are required, only URL and password protection with different levels of access.

GSH Smart Sensors calibration can be done through E2639 or by connecting GSH module directly to PC using special **configurator (SSC)**.

Pre-calibrated Smart Sensors

GSH Smart Sensors come **already pre-calibrated**.

Replacement is as fast as possible through M12 connector without even opening a lid.

Being fully **interchangeable**, any GSH Smart Sensor can be attached to the same E2639 main unit (replace HFC with CO₂ or with NH₃ and so on) and purchased separately.

Built-in calendar may notify end customers when calibration is due.



Ammonia Detector E2639-NH3



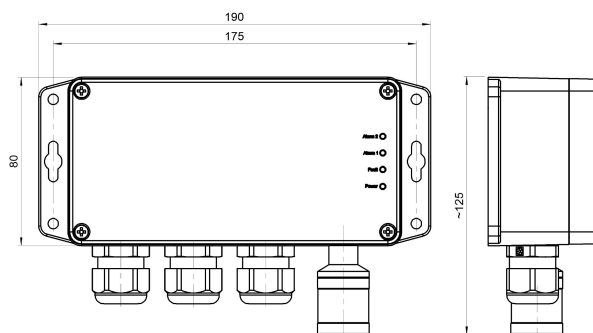
Features

- Two 4-20 mA user configurable analog outputs
- RS485 Modbus RTU digital interface
- 3 x SPDT Relays, 2 for alarms, 1 for fault
- 2 x 24 V Output for controlling alarm signals*
- Magnetic button for alarm reset & WiFi enable
- WiFi interface for configuration and calibration option

Specifications

Calibration	Ammonia NH ₃
Sensor type	Electrochemical (EC)
Sampling method	Diffusion
Typical detection ranges, ppm	0...100 0...300 0...1000 0...5000
Maximum overload, ppm	200 500 1500 10 000
Response time T90, s	< 75 <75 <75 <120
Resolution / digital unit	1 ppm
Signal update	Every 1 second
Sensor lifetime	> 2 years
Maintenance interval	6 months
Self-diagnostics	Full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	14...36 VDC (default) 24 VAC or 230 VAC as options
Power consumption	< 6 VA**
Digital interfaces	RS485, Modbus RTU protocol (Optional) 2.4 Ghz WiFi (802.11 b/g/n)
Analog outputs	2 × 4-20 mA user configurable
Output scale width	Recommended: 5-100% of the range; > 10 × resolution in any case
Enclosure	Grey ABS plastic, wall mount, protection class IP65
Dimensions	H80 × W190 × D40 mm (housing only) H150 with cable glands
Operating conditions	-40...+50 °C, -30...+50°C (for 0...5 000 ppm), 15...90 %RH
Alarm signalling	
Visual	4 x LEDs (red, green and yellow)
Acoustic	Buzzer 85 dB
Applicable standards	EN378-3; EN62990-1; EN61010-1; EN50270; EN50271; ASHRAE 15

Dimensions



* 24V outputs are relative to power supply e.g. supplied voltage of device is transferred to output voltage

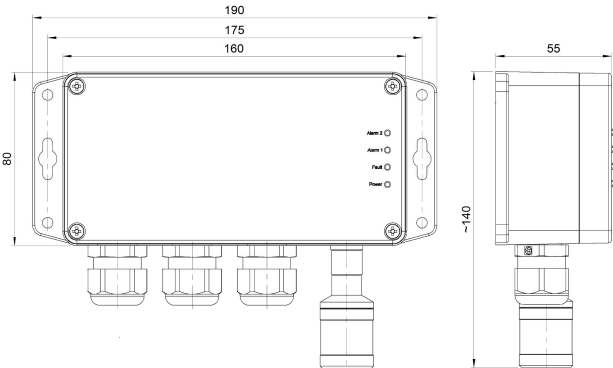
** Does not consider 24V output connected device consumption

GSH Smart Sensors Specification

Connector	M12 industrial circular
Service counter	Built-in calendar indicates when calibration is due
Calibration	Through E2639 or by connecting to SSC configurator
Remote sensor probe (option)	Shielded cable up to 5m length
Sensor head dimensions	ø 25 mm, height 54 mm



E2639-GSH Dimensions



Ordering code for E2639-NH3 standard version

Target gas	NH3				
Sensor type	-EC (for electrochemical sensor)	Other technologies available on request			
Detection range	-100 (for 0...100 ppm)	-300 (for 0...300 ppm)	-1000 (for 0...1000 ppm)	-5000 (for 0...5000 ppm)	Other ranges available on request
Wifi	-WF (yes)	Leave the field empty (no)			
Power supply	-24VDC	-24VAC	-230VAC		

Code examples: E2639-NH3-EC-100-WF-230VAC**Ordering code for version with Smart Sensor**

E2639-GSH main unit *			
Wifi	-WF (yes)	Leave the field empty (no)	
Power supply	-24VDC	-24VAC	-230VAC

* Can be supplied separately

Code example: E2639-GSH-WF-24VDC

GSH-NH3 Smart Sensor *					
Target gas	NH3				
Sensor type	-EC (for electrochemical sensor)	Other technologies available on request			
Detection range	-100 (for 0...100 ppm)	-300 (for 0...300 ppm)	-1000 (for 0...1000 ppm)	-5000 (for 0...5000 ppm)	Other ranges available on request
Remote probe (option)	-RP	Leave the field empty (if no remote probe)			
Length of remote probe (m)	-3	-5	Other length on request		

* Can be supplied separately

Code examples: GSH-NH3-EC-100-RP-3

Disclaimer

This document is subject to change.

Latest and actual version is located on the Manufacturer's web page.



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