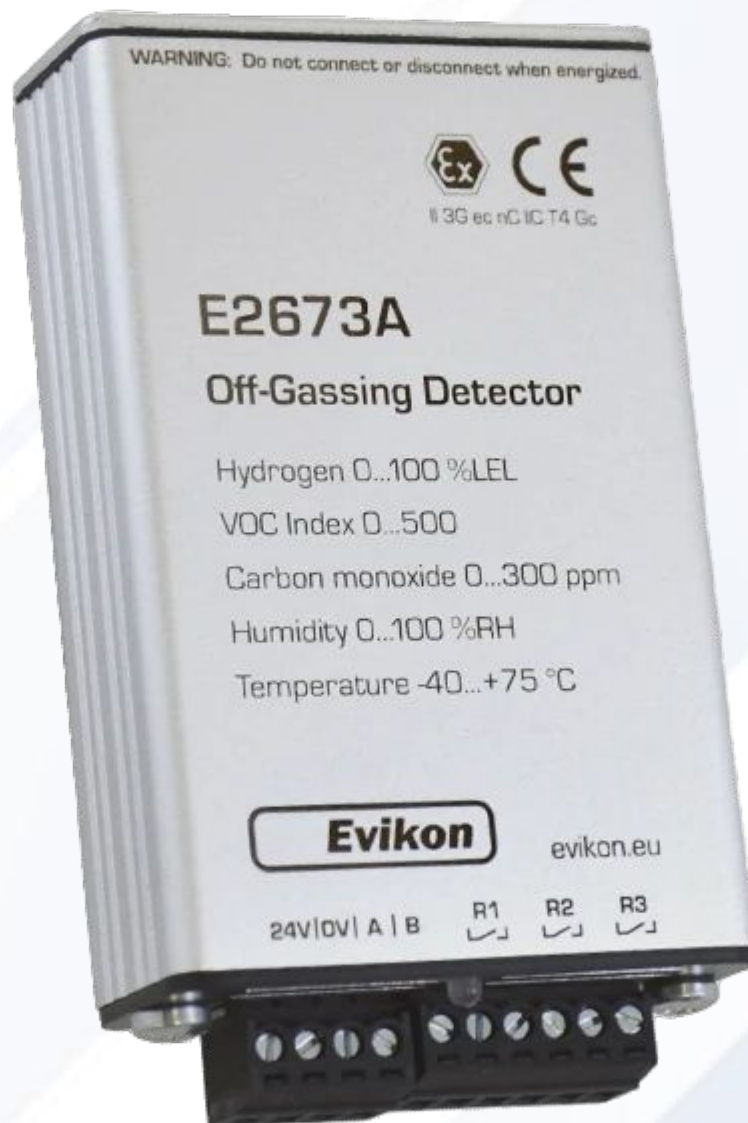


E2673A

Off-Gassing Detector



Overview

E2673A is a maintenance free detector with a long lifetime that was specifically designed to increase safety and reduce costs of ownership in such applications as:

- Battery energy storage systems (BESS)
- Data centers and UPS rooms
- EV charging infrastructure
- Battery manufacturing facilities

E2673A detects CO, H₂ and VOCs (electrolyte vapours, including DEC and DEMC) to provide early detection of battery thermal runaway and off-gassing that mitigates risks associated with lithium-ion battery failures.

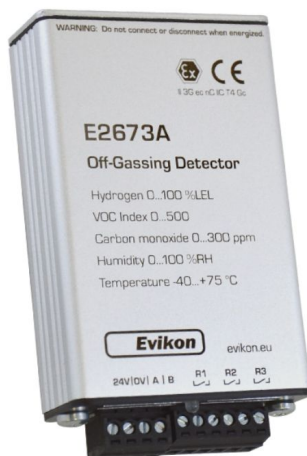
In addition, the product measures relative humidity and ambient temperature helping local systems to keep these parameters on acceptable levels reducing risks of electrostatic discharge, short circuits and equipment overheating.

Having RS485 Modbus RTU communication protocol and three relay outputs for alarms and fault signaling, the product ensures flexibility and seamless compatibility with most of the fire safety and SCADA systems.

The compact form factor allows installation even in space-constrained BESS and data centers battery racks.



Off-Gassing Detector E2673A



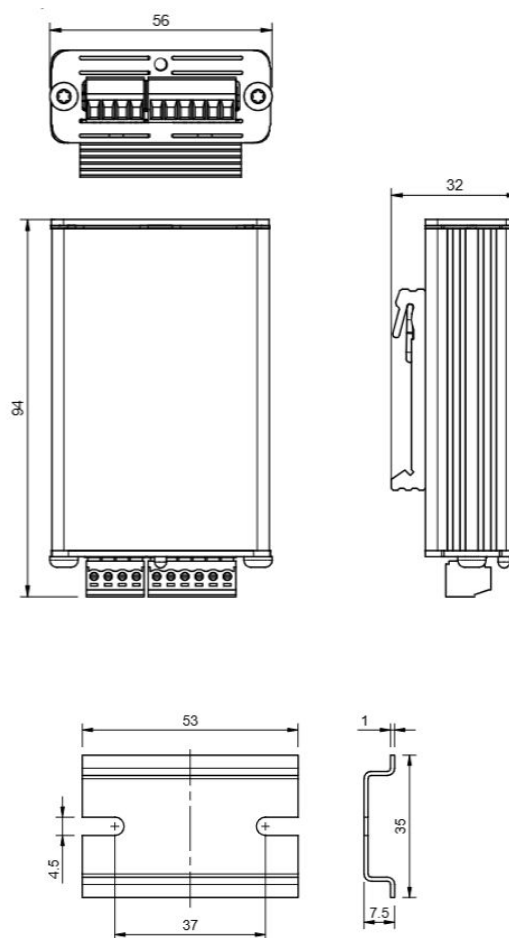
Features

- CO, H₂ and VOC leaks detection for BESS
- Humidity & Temperature measurement
- Compact DIN-rail mount design
- Maintenance free long life sensors
- Alarm relays (2 for alarms, 1 for fault)
- RS485 Modbus RTU interface

Specifications

Gas sensor technologies	Thermal conductivity for Hydrogen, MOS for Volatile Organic Compounds Electrochemical for CO
Sensors expected lifetime	12~15 years
Sampling method	Diffusion / convection
Hydrogen detection range	0...100 %LEL H ₂
Resolution / digital unit	0,02 %LEL H ₂
Hydrogen accuracy	< 3 %LEL H ₂ @ 0...50 %LEL
Alarm Threshold	10...40 %LEL H ₂ , user settable
VOC detection range	0...500 VOC index
CO detection ranges	0...300 ppm / 0...1000 ppm
CO Resolution/digital unit	1 ppm
RH+T measurement range	0...100 %RH, -40...+75 °C
RH+T accuracy	< 2 %RH, < 0,3 °C
Warm-up time	< 1 min
Self-diagnostics	Functionality check at startup and constantly
Response time	< 20 s
Long-term stability	< 3 %LEL H ₂ during 5 years
Maintenance	No maintenance or field calibration needed
Power supply	12...36 VDC
Power consumption	< 3 VA
Visual indication	Power / fault / alarm LED (green / yellow / red)
Alarm / fault outputs	Three SPST relays (NC logic): 2 for alarms, 1 for fault; rated 300 mA, 30 VDC
Digital interface	RS485 Modbus RTU, 19200 baud default
Enclosure	Silver anodized aluminium alloy, protection class IP40, H94×W56×D32 mm, DIN-rail with wall mounting possibility (using mounting bracket*)
Operation ranges	-40...+75 °C, 0...100 %RH
Ex environments	Safe areas and Zone 2, Pollution degree PD2
Regulations	2014/30/EU, 2014/34/EU EN IEC 61010-1, EN IEC 60079-0, EN IEC 60079-7, EN IEC 60079-15, EN IEC 60079-29-0, UL 2075 (CO sensor) FM 6320 (pending)

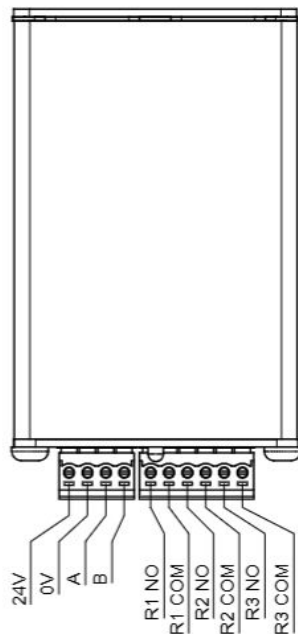
Dimensions



Mounting bracket



Connections



Disclaimer

This document is subject to change.

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



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