

E2673 Off-Gassing Detector



Protection against catastrophic thermal runaway and off-gassing incidents.

Overview

E2673 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

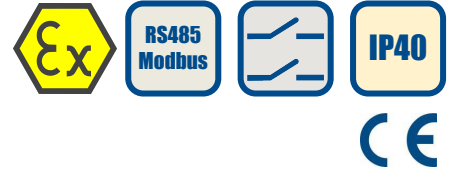
E2673 detects H₂ and VOCs (electrolyte vapours, including DEC and DEMC) to provide early detection of battery thermal runaway and off-gassing that mitigates risks associated with lithium-ion battery failures.

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 E2673



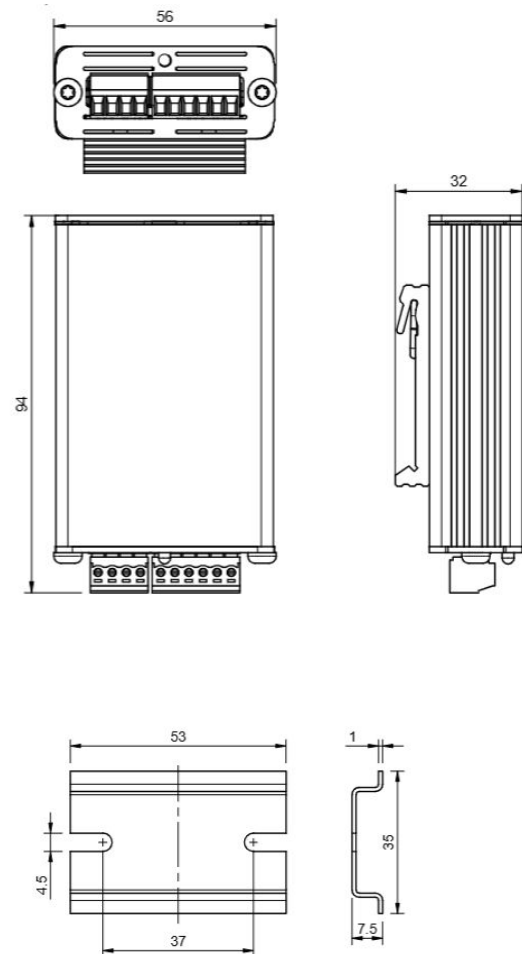
Features

- Hydrogen & VOC leaks detection
- Humidity & Temperature measurement
- Compact DIN-rail or wall 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
Sensors expected lifetime	~15 years
Sampling method	Diffusion / convection
Hydrogen detection range	0...100 %LEL H2
Resolution / digital unit	0.02 %LEL H2
Accuracy	< 3 %LEL H2 @ 0...50 %LEL
Alarm Threshold	10...40 %LEL H2, user settable
VOC detection range	0...500 VOC index
RH+T measurement range	0...100 %RH, -40...+85 °C
RH+T accuracy	< 2 %RH, < 0.3 °C
Warm-up time	< 1 min
Self-diagnostics	Functionality check at startup and continuously
Response time	< 20 s
Long-term stability	< 3 %LEL H2 during 5 years
Maintenance	No maintenance or field calibration needed
Power supply	10...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, baud rate 19200
Enclosure	Silver anodized aluminium alloy, protection class IP40, H94×W56×D32 mm, DIN-rail with wall mounting possibility (using mounting bracket*)
Operation ranges	-40...+85 °C, 0...100 %RH
Ex environments	Safe areas and Zone 2, Pollution degree PD2
Regulations	Directives 2014/30/EU, 2014/34/EU EN 61010-1, EN 60079-0, EN 60079-7, EN IEC 60079-29-0, EN 60079-2, EN 60079-3 FM 6320 (pending)

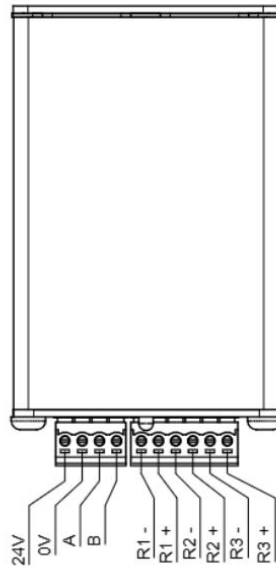
Dimensions



Mounting bracket

*Mounting bracket included in a delivery set

Connections



Disclaimer

This document is subject to change.