



## OUTPUT MODULES

The gas detectors of the MOON series are composed of two electronic boards; one that controls the calibration and compensation algorithms of the sensing element (1), while the other controls the communication to the control unit (2).

The gas detector is supplied in combination with one of the following communication boards:

–**OC** Output module with O.C. Optoisolated NPN. A series of on-board resistors, selectable via dip-switches, allow the forwarding of Prealarm, Alarm and Fault to different types of conventional control units or third-party input modules.

–**AS** Absorption output module. It allows connection to conventional control panels and input modules without adding balancing resistors (before order, check the resistances required by the control panel or module).

–**42** 4-20 mA analogue output module, active and passive signal, positive or negative voltage. Typical connection for PLC applications. Possible to calibrate the full scale values of the signal.

–**RL** 3 Relay output module for Fault, Prealarm, Alarm. Free contact outputs that can be set as NO or NC, typically used for connection of security alarm control units or directly for the wiring on electrical panels.

–**LV** Communication module for analogue control units with VEGA protocol. The module is able to transmit pre-alarm, alarm and fault information using a single loop address (depending on the control panel). Up to 240 detectors per loop.

–**LE** Communication module for SmartLoop or SmartLight analogue control units, with ENEA protocol. The module is capable of transmitting pre-alarm, alarm and fault information using a single loop address. Up to 240 detectors per loop.

**NEW. MB Communication module with MODBUS protocol.**

The complete detector code is therefore E703H-2-xx, where XX identifies the above-mentioned communication card.

## E703H-2



Gas Detector Electrochemical Cell  
for Carbon Monoxide in explosion proof  
housing

## DESCRIPTION

The E703H-2 gas detector for Carbon Monoxide is part of the new family of gas detectors for industrial use.

The gas detector is equipped with a head sensor with an electrochemical cell sensing element that measures the concentration of the toxic gas on the PPM scale (parts per million).

The gas detector is pre-configured with Pre-alarm thresholds 100 ppm and Alarm 200 ppm. Working scale 0-500PPM.

The pre-configured standard thresholds are valid only for sensors with relay, OC and AS outputs

Optionally available an interface with Android App and PC software, which allow the testing of the detector in the field, and configuration modification: detection thresholds, alarm filters, addressing, full scale, etc.

In case of exhaustion or failure of the sensitive element, it can be replaced directly in the field, in a simple and fast way with considerable savings on the maintenance costs of the detector.

Maintenance must be performed by qualified technician and not before having placed the classified area in safety.

The detector is equipped with ATEX certified explosion proof metal housing, which contains the electronics board and in a stainless steel container the sensitive element, positioned at the lower part and protected by a sintered filter, and resinated in the upper part.

MAIN BOARD-2



OUTPUT BOARD XX

## TECHNICAL FEATURES

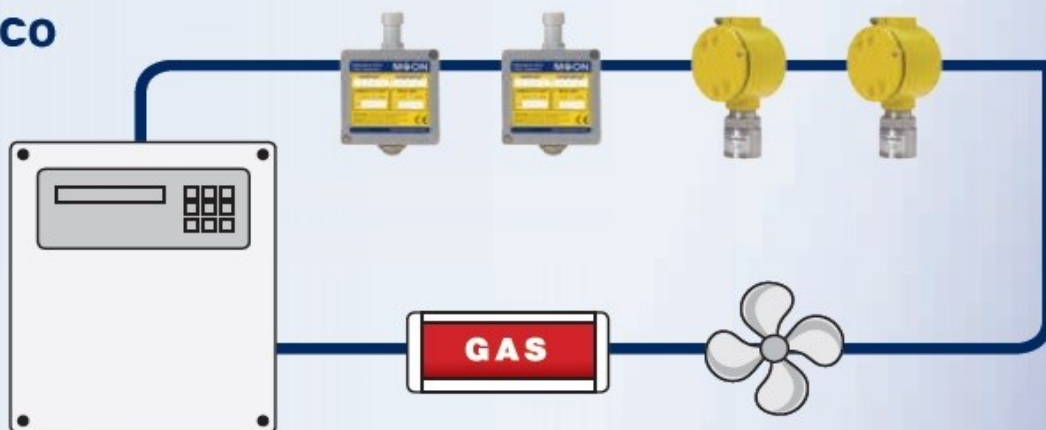
Supply voltage	12/24 Vdc
Sensing element (Warm-up 150")	Electrochemical cell
Lifetime of the element in optimal conditions	3 Years
Standard Consumption	40mA max
Alarm Consumption	60 mA max
Operating temperature	0°C / +40 °C
Resolution	1 PPM up to F.s.
Linearity	± 3% of reading
Accuracy	± 3%reading 20°C
Response time T90 for Carbon Monoxide	< 60 seconds
Weight	1 Kg
Housing	ATEX Exd ADPE
Dimensions HxWxD (mm)	165 x 90 x 80
Cover with installation 160cm from ground	4 meters radius

**Certified ATEX II 2G Ex-d IIC T6 Gb**

## BLOCKS DIAGRAM

### Loop Analogico

-LV  
-LE



Centrale Analogica di Rivelazione incendio

### Convenzionale

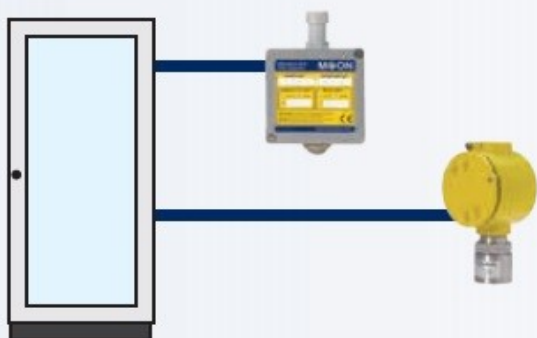
-OC  
-AS



Centrale Convenzionale di Rivelazione Incendio

### Linea 4-20mA

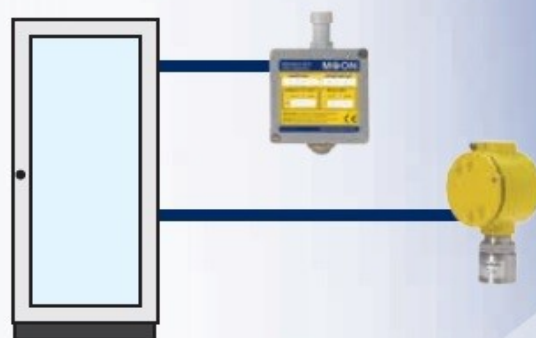
-42



PLC

### Cablaggio a Relè

-RL



Quadro elettrico