

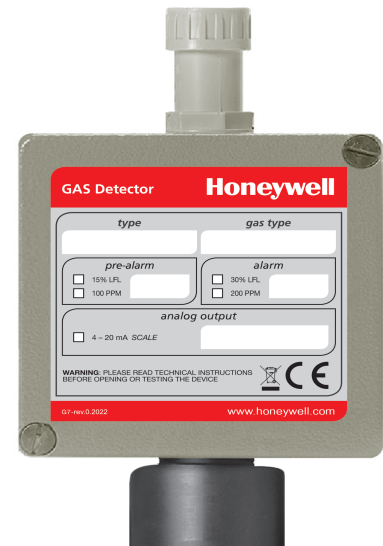
# GAS DETECTION

## IP55 Electrochemical detectors

The detector is equipped with an electrochemical cell head that measures the toxic gas concentration on the ppm (parts per million) scale or the volume percentage of the oxygen in the air.

The detector is delivered with a pre-alarm threshold of 100 ppm and an alarm threshold of 200 ppm.

The oxygen versions are with a pre-alarm threshold of 24% vol., and an alarm threshold of 27% vol.



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

The detector is equipped with an ADFT IP55 certified dust-proof metal box, housing both the communication electronics and the sensor element, positioned in the lower part, and protected by a special stainless-steel mesh.

The detector is supplied together with one of the following communication modules which must be selected at order.

### STANDARD COMMUNICATION MODULES:

- Analog output module at 4-20 mA, both active and passive, and in positive or negative. Typical connection for PLC applications. Possibility to calibrate the full-scale values of the signal.
- 4 relay output module for fault, pre-alarm, alarm. Contact outputs can be set as NO or NC, typically used for connection to intrusion alarm control units or directly for wiring on electrical panels.
- Modbus output module for open protocol communication to management systems.

### ESSER BY HONEYWELL COMMUNICATION MODULES:

- Absorption output module. It allows a direct connection of the sensor to the 808613.10 or 808623 transponders with 2 wires, without resistors. Alarm, pre-alarm, and fault signals will be displayed on a single input.
- Output module with O.C. opto-isolated NPN. A series of on-board resistors, selectable via dipswitch, allow the forwarding of the pre-alarm and alarm on two separate inputs, including the fault signal included.
- 3 relay output module for fault, pre-alarm, alarm. Contact outputs can be set as NO or NC.

## FEATURES AND BENEFITS



Multiple communication modules for all kinds of applications



Easy replacement of sensor element in case of depletion or failure



Dust proof metal housing with IP55 standard for industrial use



Optionally configuration via Android App and PC software



Direct connection with ESSER by Honeywell loop transponder



Modbus Interface for communication to management systems

**Honeywell**

## TECHNICAL DATA

TYPE	G703H-2	G707H-2	G708H-2	G710H-2	G711H-2
Supply voltage	12/24 Vdc				
Detection type (pre-heating of 150°)	Electrochemical				
Service life in optimal conditions	3 years	1 year	1 year	2 years	2 years
Current consumption in standby mode	max. 40 mA				
Current consumption in alarm mode	max. 60 mA				
Operating temperature	0 °C / +50 °C				
Threshold	0-500 PPM	0-500 PPM	0-2000 PPM	21%-42% Vol	21%-0% Vol
Resolution	1 PPM up to F.S.	1 PPM up to F.S.	1 PPM up to F.S.	0.01 up to F.S.	0.01 up to F.S.
Linearity readout	±3%	±5%	±5%	±3%	±3%
Precision readout @ 20 °C	±3%	±5%	±5%	±3%	±3%
Gas response time T90	< 60 seconds	< 90 seconds	< 90 seconds	< 30 seconds	< 30 seconds
Box	ADFT IP55				
Weight	370 g				
Dimensions HxWxD (mm)	175 x 100 x 60				
Coverage on installation	4 m @ 160 cm	4/5 m @ ceiling	4/5 m @ ceiling	4 m @ 160 cm	4 m @ 160 cm

## ORDER INFORMATION

PART NUMBER	DESCRIPTION
G703H-2	<b>Electrochemical Carbon monoxide Detector</b> in IP55 Box.
G707H-2	<b>Electrochemical Ammonia Detector</b> in IP55 Box.
G708H-2	<b>Electrochemical Ammonia Detector</b> in IP55 Box.
G710H-2	<b>Electrochemical Oxygen (excess) Detector</b> in IP55 Box.
G711H-2	<b>Electrochemical Oxygen (deficiency) Detector</b> in IP55 Box.

## COMMUNICATION MODULES

Since the detectors will be pre-assembled with the communication module, please indicate in your order with two separate lines next to each other the detector type and the related communication module quantity needed.

PART NUMBER	DESCRIPTION
ES1-L7	<b>ESSER by Honeywell Interface:</b> absorption output module.
ES2-L7	<b>ESSER by Honeywell Interface:</b> output module with O.C. opto-isolated NPN.
ES3-L7	<b>ESSER by Honeywell Interface:</b> 3 relay output module for fault, pre-alarm, alarm.
G7-42	<b>Analog output module at 4-20 mA</b>
G7-RL4	<b>4 relay output module</b>
G7-MB	<b>Modbus output module</b>

**THE  
FUTURE  
IS  
WHAT  
WE  
MAKE IT**