GAS DETECTION

ATEX Pellistor detectors

The detector is equipped with a head with a Pellistor sensitive element that measures the concentration of the explosive gas on the LEL (Lower Explosive Limit) scale.

With this type of sensitive element, the correct reading is ensured, even in bad environmental conditions.

The detector is delivered with a pre-alarm threshold of 15% and an alarm threshold of 30% of the LEL.

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 ATEX II 2G Ex-d IIC T6 Gb certified explosion-proof metal box, housing both the communication electronics and the sensor element, and protected by a sintered filter in a resin-coated steel box.

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. optoisolated 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



ATEX II 2G Ex-d IIC T6 Gb certified explosion-proof metal box



Optionally configuration via Android App and PC software



Direct connection with ESSER by Honeywell loop transponder



Modbus Interface for communication to management systems



TECHNICAL DATA

ТҮРЕ	E700P-2	E701P-2	E702P-2	E704P-2	E705P-2	E706P-2
Supply voltage	12/24 Vdc					
Detection type (pre-heating of 150")	Pellistor					
Service life in optimal conditions	3/4 years					
Current consumption in standby mode	max. 90 mA					
Current consumption in alarm mode	max. 110 mA					
Operating temperature	0 °C / +50 °C					
Treshold	0-100% LEL					
Resolution	0.05 up to 5%	0.05 up to % used	0.05 up to 1.6%	0.05 up to 4%	0.05 up to 1.7%	0.05 up to 1.7%
Linearity readout	±10%					
Precision readout @ 20 °C	±10%					
Gas response time T90	< 30 seconds					
Вох	ATEX Exd ADPE					
Weight	1000 g					
Dimensions HxWxD (mm)	165 x 90 x 80					
Coverage on installation	4/5 m @ ceiling	4/5 m @ ceiling	4 m @ 30 cm	4/5 m @ ceiling	4/5 m @ ceiling	4/5 m @ ceiling
Certification	ATEX II 2G Ex-d IIC T6 Gb					

ORDER INFORMATION

PART NUMBER	DESCRIPTION
E700P-2	Pellistor Methane Detector in ATEX Box
E701P-2	Pellistor Special Gases Detector in ATEX Box. It can be customized to detect these gases: Methanol (Methyl Alcohol), Pentane, Heptane, Ethyl Acetate, Ethylene, Ethanol (Ethyl Alcohol), Butane, Hexane, Isobutane.
E702P-2	Pellistor Vapor Benzine Detector in ATEX Box
E704P-2	Pellistor Hydrogen Detector in ATEX Box
E705P-2	Pellistor LPG Detector in ATEX Box
E706P-2	Pellistor Propane Detector in ATEX 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	ESSER by Honeywell Interface: absorption output module.		
ES2-L7	ESSER by Honeywell Interface: output module with O.C. opto-isolated NPN.		
ES3-L7	ESSER by Honeywell Interface: 3 relay output module for fault, pre-alarm, alarm.		
G7-42	Analog output module at 4-20 mA		
G7-RL4	4 relay output module		
G7-MB	Modbus output module		

THE FUTURE IS WHAT WE MAKE IT

