

# ING55-5XX

## GAS Detector

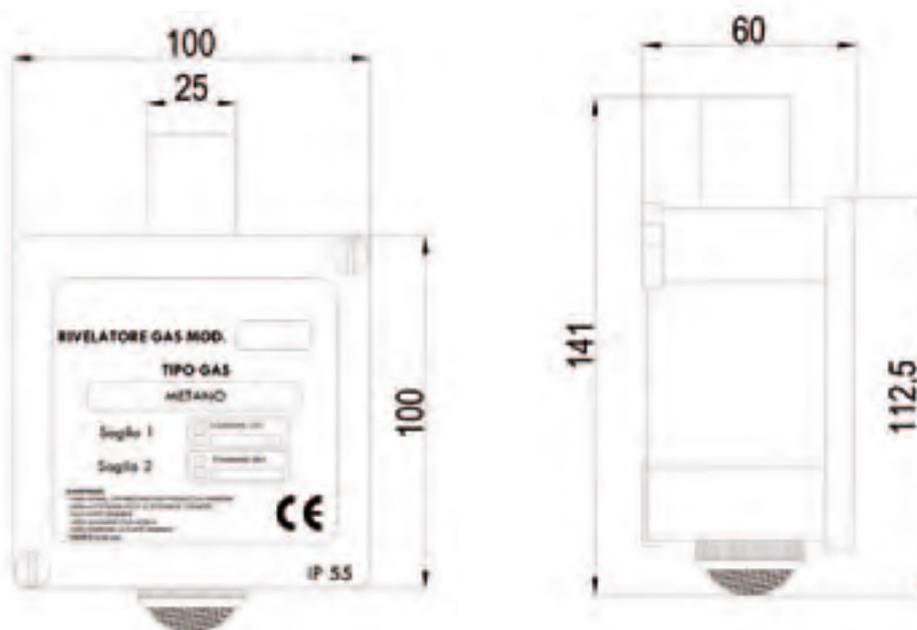
ING55-5XX series gas detectors are manufactured using the most modern reflow and SMT construction techniques. They are completely controlled by a new-generation microprocessor (Single Chip ADC 10 Bit) capable of fast response and maximum accuracy and reliability. The sensitive element is connected to an interchangeable device component which allows you to replace the sensor cap (the part most susceptible to wear and tear) without recalibrating the device.

A vast range of models allows detection of the most common types of gas, all available in IP55 rated dustproof metal enclosures. The sensitive element is located on the lower part of the detector and is protected by a stainless steel mesh. The sensor cap can be easily replaced at the end of its functional life (3 years in favourable environments with no polluting agents) without dismounting the device.

During the installation phase or maintenance sessions, you can either interface ING55-XXX series detectors with a PC (by means of the respective interface), or use a hand-held programmer, to configure the parameters, change the intervention thresholds, check the gas-level readings and/or simulate alarm, pre-alarm and fault conditions.

The thresholds are configurable in LEL or PPM or volume ratio (Oxygen detectors only) depending on the gas in question. It is possible to apply a delay of up to 240 seconds to each individual threshold and also an activation delay on powerup.

The detector has an integrated environment-temperature compensation system for the calibration of the sensitive element. This feature allows on-site sensor cap replacement without need of gas tester aerosols. As well as allowing you to set the address and configure the thresholds, filters and delays, the PC connection also allows you to view and check the real-time reading of the sensitive element and simulate alarm, pre-alarm and fault conditions via PC.



## Main features

- Open-collector Pre-alarm output - NPN optoisolated.
- Open-collector Alarm output - NPN optoisolated.
- Open-collector Fault output - NPN NC to ground.
- Output current draw (pre-alarm 2700 ohm, alarm 1200 ohm to ground).
- Configurable thresholds in LEL or PPM ratio, or volume ratio (Oxygen detectors only) depending on the gas in question.
- Selectable delays from 0 to 240 seconds for each individual threshold.
- Environment temperature compensation.
- On-site sensor cap replacement without the need of tester aerosols.
- Address, thresholds, filters and delays configurable via PC (through INA55-500 interface).
- Address, thresholds, filters and delays configurable via hand-held programmer (INA55-501).
- Ability to display real-time and detected peak readings (via PC interface or hand-held programmer).
- Pre-alarm, alarm and fault condition simulation (via PC interface or hand-held programmer).

## Technical specifications

- Sensitive element: semiconductor.
- Power supply: 12 - 24Vdc.
- Current draw during standby: 55mA@12V / 28mA@24V.
- Current draw during pre-alarm: 68mA@12V / 28mA@24V.
- Current draw during alarm: 80mA@12V / 45mA@24V.
- Operating temperature: 0° - 40°C.
- Max. air speed: 10 m/s.
- IP Protection: 55.
- Weight: 370g.
- Dimensions (HxWxD): 141x100x60 mm.

## ORDER CODES

**ING55-500:** Gas metano – Preallarme 15% L.I.E. - Allarme 30% L.I.E.

**ING55-501:** Gas Esplosivi (Alcool E., Alcool M., Etilene, Pentano, Acetone, etc. specificare tipo di gas in fase d'ordine)  
Preallarme 15% L.I.E. - Allarme 30% L.I.E.

**ING55-502:** Vapori di Benzina - Preallarme 15% L.I.E. - Allarme 30% L.I.E.

**ING55-503:** Monossido di carbonio - Preallarme 100 ppm - Allarme 200 ppm

**ING55-504:** Idrogeno - Preallarme 15% L.I.E. - Allarme 30% L.I.E.

**ING55-505:** GPL - Preallarme 15% L.I.E. - Allarme 30% L.I.E.

**ING55-506:** Propano - Preallarme 15% L.I.E. - Allarme 30% L.I.E.

**ING55-507:** Ammoniaca - Preallarme 100 ppm - Allarme 200 ppm

**ING55-508:** Ammoniaca - Preallarme 1000 ppm - Allarme 2000 ppm

**ING55-509:** Acetilene - Preallarme 15% L.I.E. - Allarme 30% L.I.E.

**ING55-510:** Eccesso di Ossigeno - Preallarme 24% L.I.E. - Allarme 27% L.I.E.

**ING55-511:** Difetto di Ossigeno - Preallarme 18% L.I.E. - Allarme 15% L.I.E.

## ORDER CODE

### ACCESSORY ITEMS

**INA55-500:** Gas detector to PC interface.

**INA55-501:** Hand-held programmer for gas detectors.

**INA55-503:** 3 relay board.

**INA55-504:** Analogue interface.

**INA55-505:** Interface to Argus Input module.

**INA55-101:** Interface 4-20mA.

**INA55-103:** Interface with 1 relay 12/24V.

**INB55-5XX:** Tester aerosol.

**INA55-104:** 8 mm Valve for disposable cylinders.

**INA55-105:** Cup for G55 gas detectors to be used with 8 mm valve\*.

## REFER TO

**ITD016** - EM312SR to GAS ING55-5xx Relay.

**ITD017** - EM312SR to GAS ING55-5xx INA55-505.

**ITD019** - EU311 to GAS ING55-5xx Relay.

**ITD020** - EU311 to GAS ING55-5xx INA55-505.

**ITD028** - ING55 4\_20mA.