

# Toxic Gas Detector Model T610 Series



T610 - LED Display  
With Light and Sound Alarm

T610 - LED Display

THE RIGHT CHOICE FOR YOUR GAS DETECTION APPLICATION  
EASE AT INSTALLATION AND MAINTENANCE  
OFFERS FLEXIBILITY FOR INDUSTRY STANDARD PROTOCOLS

# Toxic Gas Detector

## T610 Series

### MAKING INSTALLATION AND EVERYDAY OPERATION EASY

The T610 Series is full-featured 4-20mA, loop powered transmitters designed to reliably detect oxygen, hydrogen, and any of a number of toxic gases. Its universal electronics and flexible, user-friendly features drive down gas detection costs for almost any facility.

#### PRODUCT SPECIFICATION

##### SPECIFICATIONS

|                                  |  |
|----------------------------------|--|
| Operating Voltage                | 10-30 VDC (24 VDC nominal)   |
| Power Consumption                | < 3.0 Watts  |
| Enclosure Material               | Aluminum   |
| Enclosure Ingress Protection     | IP 66  |
| Terminal Junction Box Connection | 3/4" NPT   |
| Communication                    | 4-20 mA, MODBUS  |
| Response Time                    | T90:<20S   |
| Alarms                           | Programmable alarms  |
| Relays                           | 5A 240V  |
| Display                          | 4-digit LED 7 segments<br>Display indicates status Normal, Fault, Low Alarm, and High Alarm<br>Display provides simple, intuitive calibration instructions and guides user through the calibration |
| Languages                        | English  |

##### ENVIRONMENTAL

|                       |                              |
|-----------------------|------------------------------|
| Operating Temperature | -40° to 70°C                 |
| Humidity              | (10-95)% RH (Non-condensing) |
| Storage Temperature   | -55° to 70°C                 |

##### CERTIFICATION

|                     |                 |
|---------------------|-----------------|
| Area Classification | Ex d II C T6 Gb |
| Other Standards     | ANSI/IIAR       |

##### INSTALLATION

|        |  |
|--------|--|
| Weight | 3 kg   |
| Wiring | Detector accepts industry standard 3-wire inputs |

##### SENSOR SPECIFICATION

|             |                 |
|-------------|-----------------|
| Sensor Type | Electrochemical |
|-------------|-----------------|

The T610 detection system detects a full-range of toxic gases:

|                                    | Ranges  |       | Resolution |       |                                     | Ranges |     | Resolution |     |
|------------------------------------|---------|-------|------------|-------|-------------------------------------|--------|-----|------------|-----|
| Ammonia(NH <sub>3</sub> )          | 0-100   | ppm   | 1          | ppm   | Nitric Oxide (NO)                   | 0-100  | ppm | 1          | ppm |
| Carbon Monoxide(CO)                | 0-2,000 | ppm   | 1          | ppm   | Nitrogen Dioxide (NO <sub>2</sub> ) | 0-10   | ppm | 0.1        | ppm |
| Hydrogen Sulfide(H <sub>2</sub> S) | 0-200   | ppm   | 1          | ppm   | Hydrogen Cyanide (HCN)              | 0-100  | ppm | 1          | ppm |
| Oxygen (O <sub>2</sub> )           | 0-30    | %Vol. | 0.1        | %Vol. | Phosphine (PH <sub>3</sub> )        | 0-20   | ppm | 0.1        | ppm |
| Chlorine Cl <sub>2</sub> )         | 0-20    | ppm   | 0.1        | ppm   | Hydrogen Chloride (HCl)             | 0-50   | ppm | 1          | ppm |
| Hydrogen(H <sub>2</sub> )          | 0-2,000 | ppm   | 1          | ppm   | Hydrogen Fluoride (HF)              | 0-10   | ppm | 0.01       | ppm |
| Sulfur Dioxide(SO <sub>2</sub> )   | 0-1,000 | ppm   | 1          | ppm   | Ethylene Oxide (ETO)                | 0-100  | ppm | 1          | ppm |

**Note:** Other ranges are available upon request.

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