

MIC-600-CB Fixed Multigas Detector

GTYQ-MIC-600-CB

A fixed gas detector with standard configurations for one to six gases, expandable to eight. Infrared remote control and magnetic-wand operation are documented.

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Fixed multigas configurations

GTYQ-MIC-600-CB supports one to six gases in standard configurations, with an expanded chamber for up to eight. The standard chamber measures 240 × 180 × 90 mm; alarm and expanded-chamber arrangements alter the housing dimensions. Confirm the selected gases, ranges and mounting space for the installation.

Enclosure weight for mounting

The IP66 standard chamber weighs 2.2 kg. Alarm and expanded-chamber configurations have different weights and dimensions; confirm the selected arrangement against mounting load and available space.

Technical data

Ingress protection	IP66
Dimensions	240 × 180 × 90 mm standard chamber; 240 × 230 × 90 mm with alarm; 260 × 180/230 × 90 mm with the expanded chamber
Weight	2.2 kg - 2.7 kg with alarm; expanded chamber configurations are 2.4 kg or 2.9 kg with alarm.
Operating temperature	-20 °C to 55 °C
Display size	2 in
Data storage	> 200,000 records
Alarm volume	> 105 dB - At 30 cm.
Sampling method	Diffusion
Standard gas configuration	1-6 gases
Expanded gas configuration	Up to 8 gases
Local operation	4-key keypad, infrared remote control and magnetic-wand operation
Power supply	24 V DC
Signal output	RS485 and 4-20 mA; HART optional
Typical accuracy	±2% FS; higher-accuracy sensor option available
Response time	T90 ≤ 30 s (general)
Recovery time	≤ 30 s (general)

Operating humidity	10-95% RH
Explosion protection	Ex db IIC T6 Gb
Enclosure option	IP67 available as a custom configuration

Communication and positioning options

Interface	Availability	Notes
RS485	Standard	
HART	Optional	
LoRa	Optional	
LoRaWAN	Optional	
4G	Optional	
NB-IoT	Optional	
Wi-Fi	Optional	
Bluetooth	Optional	
Ethernet	Optional	

Supported Gas Configurations

Each row describes one supported gas and measuring range. It does not identify an installed detection channel or an orderable part number. Gas combinations, sensor compatibility and the final configuration require technical confirmation.

Gas	Measuring range	Resolution / notes
Hydrogen Sulfide (H2S)	0-10 ppm	0.01 ppm
Hydrogen Sulfide (H2S)	0-100 ppm	0.01 ppm
Hydrogen Sulfide (H2S)	0-500 ppm	0.1 ppm
Hydrogen Sulfide (H2S)	0-2,000 ppm	1 ppm
Carbon Monoxide (CO)	0-100 ppm	0.01 ppm
Carbon Monoxide (CO)	0-1,000 ppm	0.1 ppm
Carbon Monoxide (CO)	0-2,000 ppm	1 ppm
Carbon Monoxide (CO)	0-5,000 ppm	1 ppm
Carbon Monoxide (CO)	0-10,000 ppm	1 ppm
Oxygen (O2)	0-30 %Vol	0.01 %Vol
Oxygen (O2)	0-100 %Vol	0.01 %Vol
Methane (CH4)	0-100 %LEL	0.1 %LEL
Methane (CH4)	0-100 %Vol	0.01 %Vol

Gas	Measuring range	Resolution / notes
Carbon Dioxide (CO ₂)	0-5 %Vol	0.01 %Vol
Carbon Dioxide (CO ₂)	0-20 %Vol	0.01 %Vol
Carbon Dioxide (CO ₂)	0-100 %Vol	0.01 %Vol
Carbon Dioxide (CO ₂)	0-5,000 ppm	1 ppm
Carbon Dioxide (CO ₂)	0-50,000 ppm	1 ppm
Ammonia (NH ₃)	0-100 %LEL	0.1 %LEL
Ammonia (NH ₃)	0-10 ppm	0.01 ppm
Ammonia (NH ₃)	0-100 ppm	0.01 ppm
Ammonia (NH ₃)	0-1,000 ppm	0.1 ppm
Ammonia (NH ₃)	0-5,000 ppm	1 ppm
Chlorine (Cl ₂)	0-20 ppm	0.01 ppm
Chlorine (Cl ₂)	0-200 ppm	0.1 ppm
Sulfur Dioxide (SO ₂)	0-20 ppm	0.01 ppm
Sulfur Dioxide (SO ₂)	0-100 ppm	0.01 ppm
Sulfur Dioxide (SO ₂)	0-1,000 ppm	0.1 ppm
Sulfur Dioxide (SO ₂)	0-5,000 ppm	1 ppm
Nitric Oxide (NO)	0-20 ppm	0.01 ppm
Nitric Oxide (NO)	0-100 ppm	0.01 ppm
Nitric Oxide (NO)	0-1,000 ppm	0.1 ppm
Nitric Oxide (NO)	0-5,000 ppm	1 ppm
Nitrogen Dioxide (NO ₂)	0-20 ppm	0.01 ppm
Nitrogen Dioxide (NO ₂)	0-100 ppm	0.01 ppm
Nitrogen Dioxide (NO ₂)	0-1,000 ppm	0.1 ppm
Nitrogen Dioxide (NO ₂)	0-2,000 ppm	1 ppm
Hydrogen (H ₂)	0-100 %LEL	0.1 %LEL
Hydrogen (H ₂)	0-100 %Vol	0.01 %Vol
Hydrogen (H ₂)	0-1,000 ppm	0.1 ppm
Hydrogen (H ₂)	0-20,000 ppm	1 ppm
Hydrogen (H ₂)	0-40,000 ppm	1 ppm
Volatile Organic Compounds (VOC)	0-20 ppm	0.01 ppm
Volatile Organic Compounds (VOC)	0-200 ppm	0.1 ppm

Gas	Measuring range	Resolution / notes
Volatile Organic Compounds (VOC)	0-2,000 ppm	1 ppm
Volatile Organic Compounds (VOC)	0-10,000 ppm	1 ppm
Hydrogen Cyanide (HCN)	0-30 ppm	0.01 ppm
Hydrogen Cyanide (HCN)	0-100 ppm	0.01 ppm
Hydrogen Chloride (HCl)	0-20 ppm	0.01 ppm
Hydrogen Chloride (HCl)	0-200 ppm	0.1 ppm
Phosphine (PH ₃)	0-5 ppm	0.001 ppm
Phosphine (PH ₃)	0-20 ppm	0.01 ppm
Phosphine (PH ₃)	0-2,000 ppm	1 ppm
Combustible Gas (EX)	0-100 %LEL	0.1 %LEL
Combustible Gas (EX)	0-100 %Vol	0.01 %Vol
Combustible Gas (EX)	0-1,000 ppm	1 ppm
Chlorine Dioxide (ClO ₂)	0-1 ppm	0.001 ppm
Chlorine Dioxide (ClO ₂)	0-10 ppm	0.01 ppm
Chlorine Dioxide (ClO ₂)	0-100 ppm	0.01 ppm
Ethylene Oxide (ETO)	0-100 %LEL	0.1 %LEL
Ethylene Oxide (ETO)	0-100 ppm	0.01 ppm
Ethylene Oxide (ETO)	0-1,000 ppm	0.1 ppm
Phosgene (COCl ₂)	0-1 ppm	0.001 ppm
Phosgene (COCl ₂)	0-10 ppm	0.01 ppm
Silane (SiH ₄)	0-1 ppm	0.001 ppm
Silane (SiH ₄)	0-50 ppm	0.01 ppm
Fluorine (F ₂)	0-1 ppm	0.001 ppm
Fluorine (F ₂)	0-10 ppm	0.001 ppm
Fluorine (F ₂)	0-100 ppm	0.01 ppm
Hydrogen Fluoride (HF)	0-10 ppm	0.01 ppm
Hydrogen Fluoride (HF)	0-50 ppm	0.01 ppm
Formaldehyde (CH ₂ O)	0-10 ppm	0.01 ppm
Formaldehyde (CH ₂ O)	0-50 ppm	0.01 ppm
Formaldehyde (CH ₂ O)	0-100 ppm	0.01 ppm
Formaldehyde (CH ₂ O)	0-1,000 ppm	1 ppm

Gas	Measuring range	Resolution / notes
Hydrogen Bromide (HBr)	0-50 ppm	0.01 ppm
Diborane (B ₂ H ₆)	0-10 ppm	0.001 ppm
Arsine (AsH ₃)	0-1 ppm	0.001 ppm
Arsine (AsH ₃)	0-10 ppm	0.001 ppm
Ozone (O ₃)	0-1 ppm	0.001 ppm
Ozone (O ₃)	0-10 ppm	0.01 ppm
Ozone (O ₃)	0-100 ppm	0.01 ppm
Ozone (O ₃)	0-2,000 ppm	1 ppm
Germane (GeH ₄)	0-1 ppm	0.001 ppm
Germane (GeH ₄)	0-10 ppm	0.001 ppm
Germane (GeH ₄)	0-50 ppm	0.01 ppm
Hydrazine (N ₂ H ₄)	0-1 ppm	0.001 ppm
Hydrazine (N ₂ H ₄)	0-300 ppm	0.1 ppm
Tetrahydrothiophene (THT)	0-50 mg/m ³	0.01 mg/m ³
Bromine (Br ₂)	0-10 ppm	0.01 ppm
Bromine (Br ₂)	0-50 ppm	0.01 ppm
Acetylene (C ₂ H ₂)	0-100 %LEL	0.1 %LEL
Acetylene (C ₂ H ₂)	0-100 ppm	0.1 ppm
Acetylene (C ₂ H ₂)	0-1,000 ppm	1 ppm
Ethylene (C ₂ H ₄)	0-10 ppm	0.01 ppm
Ethylene (C ₂ H ₄)	0-100 ppm	0.1 ppm
Ethylene (C ₂ H ₄)	0-1,000 ppm	1 ppm
Ethanol (C ₂ H ₆ O)	0-100 %LEL	0.1 %LEL
Ethanol (C ₂ H ₆ O)	0-100 ppm	0.1 ppm
Ethanol (C ₂ H ₆ O)	0-2,000 ppm	1 ppm
Methanol	0-100 %LEL	0.1 %LEL
Methanol	0-100 ppm	0.1 ppm
Methanol	0-2,000 ppm	1 ppm
Nitrogen Oxides (NO _x)	0-100 ppm	0.01 ppm
Nitrogen Oxides (NO _x)	0-500 ppm	0.1 ppm
Nitrogen Oxides (NO _x)	0-2,000 ppm	1 ppm

Gas	Measuring range	Resolution / notes
Carbon Disulfide (CS ₂)	0-50 ppm	0.01 ppm
Acrylonitrile (C ₃ H ₃ N)	0-100 ppm	0.01 ppm
Nitrous Oxide (N ₂ O)	0-1,000 ppm	1 ppm
Nitrogen (N ₂)	0-100 %Vol	0.01 %Vol
Benzene (C ₆ H ₆)	0-200 ppm	0.1 ppm
Toluene (C ₇ H ₈)	0-200 ppm	0.1 ppm
Xylene (C ₈ H ₁₀)	0-200 ppm	0.1 ppm
Styrene (C ₈ H ₈)	0-200 ppm	0.1 ppm
Vinyl Chloride (C ₂ H ₃ Cl)	0-200 ppm	0.1 ppm
Trichloroethylene (C ₂ HCl ₃)	0-200 ppm	0.1 ppm
Tetrachloroethylene (PID) (C ₂ Cl ₄)	0-200 ppm	0.1 ppm
Methyl Bromide (CH ₃ Br)	0-200 mg/m ³	0.1 mg/m ³
Methyl Bromide (CH ₃ Br)	0-100 ppm	0.1 ppm
Ethanethiol (C ₂ H ₅ SH)	0-10 mg/m ³	0.01 mg/m ³
Nitrogen Tetroxide (N ₂ O ₄)	0-100 ppm	0.01 ppm

Document scope

This summary records the approved model data shown on the product page. It is not an operating manual, installation approval or certificate. Review the applicable certificate record and exact model or configuration scope separately. Request the operating instructions for the supplied configuration before installation or use.

Product information and inquiry: <https://www.eranntex.com/products/mic-600-cb/>