

GTyQ-MIC-600 Fixed Multigas Detector

GTyQ-MIC-600

A fixed multigas detection platform with local display, data logging and configurable industrial outputs.

Revision TS-20261008-1d3474f2 | Prepared 2026-10-08 from approved product data

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Configurable fixed multigas monitoring

GTyQ-MIC-600 is a fixed multigas detection platform configurable for continuous monitoring of one to six gases at industrial installations. The installed gases, ranges and sensing principles are selected for the application.

The 2.5-inch color display shows local readings and alarms. Data logging, RS485 and 4-20 mA outputs support the monitoring point; any wireless link depends on the selected configuration.

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	2.5 in
Sampling method	Diffusion
Standard gas configuration	1-6 gases
Signal output	RS485 Modbus RTU and three-wire 4-20 mA standard; HART 5 optional
Typical accuracy	≤ ±2% FS; higher-accuracy sensor option available
Linearity	≤ ±1%
Repeatability	≤ ±1%
Measurement uncertainty	≤ ±1%
Response time	T90 ≤ 30 s
Recovery time	≤ 30 s
Power supply	24 V DC
Installation	Wall, pipeline, flow-through or pumped sampling
Local operation	4-key keypad and infrared remote control

Communication and positioning options

Interface	Availability	Notes
RS485	Standard	
HART	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	0.001 ppm
Hydrogen Sulfide (H2S)	0-50 ppm	0.01 ppm
Hydrogen Sulfide (H2S)	0-100 ppm	0.01 ppm
Hydrogen Sulfide (H2S)	0-2,000 ppm	0.1 ppm
Hydrogen Sulfide (H2S)	0-10,000 ppm	1 ppm
Carbon Monoxide (CO)	0-100 ppm	0.1 ppm
Carbon Monoxide (CO)	0-1,000 ppm	0.1 ppm
Carbon Monoxide (CO)	0-2,000 ppm	0.1 ppm
Carbon Monoxide (CO)	0-20,000 ppm	1 ppm
Carbon Monoxide (CO)	0-100,000 ppm	1 ppm
Oxygen (O2)	0-30 %Vol	0.01 %Vol
Oxygen (O2)	0-100 %Vol	0.01 %Vol
Oxygen (O2)	0-5,000 ppm	1 ppm
Methane (CH4)	0-100 %LEL	0.1 %LEL
Methane (CH4)	0-100 %Vol	0.1 %Vol
Carbon Dioxide (CO2)	0-20 %Vol	0.01 %Vol
Carbon Dioxide (CO2)	0-100 %Vol	0.01 %Vol
Carbon Dioxide (CO2)	0-500 ppm	1 ppm
Carbon Dioxide (CO2)	0-2,000 ppm	1 ppm
Carbon Dioxide (CO2)	0-5,000 ppm	1 ppm
Carbon Dioxide (CO2)	0-50,000 ppm	1 ppm
Ammonia (NH3)	0-100 %LEL	0.1 %LEL
Ammonia (NH3)	0-50 ppm	0.01 ppm
Ammonia (NH3)	0-100 ppm	0.01 ppm

Gas	Measuring range	Resolution / notes
Ammonia (NH3)	0-1,000 ppm	0.1 ppm
Ammonia (NH3)	0-5,000 ppm	1 ppm
Chlorine (Cl2)	0-10 ppm	0.001 ppm
Chlorine (Cl2)	0-20 ppm	0.01 ppm
Chlorine (Cl2)	0-200 ppm	0.1 ppm
Chlorine (Cl2)	0-2,000 ppm	0.1 ppm
Sulfur Dioxide (SO2)	0-10 ppm	0.001 ppm
Sulfur Dioxide (SO2)	0-20 ppm	0.01 ppm
Sulfur Dioxide (SO2)	0-100 ppm	0.01 ppm
Sulfur Dioxide (SO2)	0-500 ppm	0.1 ppm
Sulfur Dioxide (SO2)	0-2,000 ppm	0.1 ppm
Sulfur Dioxide (SO2)	0-10,000 ppm	1 ppm
Nitric Oxide (NO)	0-10 ppm	0.001 ppm
Nitric Oxide (NO)	0-100 ppm	0.01 ppm
Nitric Oxide (NO)	0-2,000 ppm	0.1 ppm
Nitric Oxide (NO)	0-5,000 ppm	1 ppm
Nitrogen Dioxide (NO2)	0-10 ppm	0.001 ppm
Nitrogen Dioxide (NO2)	0-100 ppm	0.01 ppm
Nitrogen Dioxide (NO2)	0-1,000 ppm	0.1 ppm
Nitrogen Dioxide (NO2)	0-5,000 ppm	1 ppm
Hydrogen (H2)	0-100 %LEL	0.1 %LEL
Hydrogen (H2)	0-100 %Vol	0.01 %Vol
Hydrogen (H2)	0-1,000 ppm	0.1 ppm
Hydrogen (H2)	0-20,000 ppm	1 ppm
Hydrogen (H2)	0-40,000 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 (PH3)	0-5 ppm	0.001 ppm
Phosphine (PH3)	0-25 ppm	0.01 ppm

Gas	Measuring range	Resolution / notes
Phosphine (PH ₃)	0-2,000 ppm	1 ppm
Combustible Gas (EX)	0-100 %LEL	0.1 %LEL
Combustible Gas (EX)	0-100 %Vol	0.1 %Vol
Chlorine Dioxide (ClO ₂)	0-1 ppm	0.001 ppm
Chlorine Dioxide (ClO ₂)	0-10 ppm	0.01 ppm
Chlorine Dioxide (ClO ₂)	0-200 ppm	0.01 ppm
Ethylene Oxide (ETO)	0-100 %LEL	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)	0-50 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	0.01 ppm
Fluorine (F ₂)	0-50 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	0.001 ppm
Formaldehyde (CH ₂ O)	0-10 ppm	0.01 ppm
Formaldehyde (CH ₂ O)	0-100 ppm	0.01 ppm
Formaldehyde (CH ₂ O)	0-5,000 ppm	1 ppm
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	0.01 ppm
Arsine (AsH ₃)	0-50 ppm	0.01 ppm
Ozone (O ₃)	0-1 ppm	0.001 ppm
Ozone (O ₃)	0-5 ppm	0.001 ppm
Ozone (O ₃)	0-50 ppm	0.01 ppm
Ozone (O ₃)	0-100 ppm	0.01 ppm

Gas	Measuring range	Resolution / notes
Ozone (O3)	0-2,000 ppm	0.1 ppm
Ozone (O3)	0-30,000 ppm	1 ppm
Germane (GeH4)	0-2 ppm	0.001 ppm
Germane (GeH4)	0-20 ppm	0.01 ppm
Hydrazine (N2H4)	0-1 ppm	0.001 ppm
Hydrazine (N2H4)	0-300 ppm	0.1 ppm
Tetrahydrothiophene (THT)	0-100 mg/m3	0.01 mg/m3
Bromine (Br2)	0-10 ppm	0.001 ppm
Bromine (Br2)	0-100 ppm	0.01 ppm
Bromine (Br2)	0-2,000 ppm	1 ppm
Acetylene (C2H2)	0-100 %LEL	0.1 %LEL
Acetylene (C2H2)	0-100 ppm	0.01 ppm
Acetylene (C2H2)	0-1,000 ppm	0.1 ppm
Ethylene (C2H4)	0-100 %LEL	0.1 %LEL
Ethylene (C2H4)	0-100 ppm	0.01 ppm
Ethylene (C2H4)	0-2,000 ppm	0.1 ppm
Ethanol (C2H6O)	0-100 ppm	0.01 ppm
Ethanol (C2H6O)	0-2,000 ppm	1 ppm
Methanol	0-100 ppm	0.01 ppm
Methanol	0-2,000 ppm	1 ppm
Nitrogen Oxides (NOx)	0-10 ppm	0.001 ppm
Nitrogen Oxides (NOx)	0-100 ppm	0.01 ppm
Nitrogen Oxides (NOx)	0-2,000 ppm	0.1 ppm
Nitrogen Oxides (NOx)	0-5,000 ppm	1 ppm
Carbon Disulfide (CS2)	0-50 ppm	0.01 ppm
Carbon Disulfide (CS2)	0-5,000 ppm	0.01 ppm
Acrylonitrile (C3H3N)	0-50 ppm	0.01 ppm
Acrylonitrile (C3H3N)	0-2,000 ppm	1 ppm
Nitrous Oxide (N2O)	0-100 ppm	0.01 ppm
Methylamine	0-50 ppm	0.01 ppm
Nitrogen (N2)	0-100 %Vol	0.01 %Vol

Gas	Measuring range	Resolution / notes
Benzene (C ₆ H ₆)	0-10 ppm	0.01 ppm
Benzene (C ₆ H ₆)	0-100 ppm	0.01 ppm
Benzene (C ₆ H ₆)	0-2,000 ppm	1 ppm
Styrene (C ₈ H ₈)	0-200 ppm	0.1 ppm
Styrene (C ₈ H ₈)	0-5,000 ppm	1 ppm
Vinyl Chloride (C ₂ H ₃ Cl)	0-100 ppm	0.01 ppm
Trichloroethylene (C ₂ HCl ₃)	0-100 ppm	0.01 ppm
Tetrachloroethylene (PID) (C ₂ Cl ₄)	0-100 ppm	0.01 ppm
Methyl Bromide (CH ₃ Br)	0-200 g/m ³	0.1 g/m ³
Methyl Bromide (CH ₃ Br)	0-100 ppm	0.01 ppm
Methyl Bromide (CH ₃ Br)	0-30,000 ppm	1 ppm
Helium (He)	0-100 %Vol	0.01 %Vol
Argon (Ar)	0-100 %Vol	0.01 %Vol
Xenon (Xe)	0-100 %Vol	0.01 %Vol
Nitrogen Trifluoride (NF ₃)	0-100 ppm	0.01 ppm
Hydrogen Peroxide (H ₂ O ₂)	0-100 ppm	0.01 ppm
Sulfuryl Fluoride (SO ₂ F ₂)	0-100 ppm	0.01 ppm
Sulfuryl Fluoride (SO ₂ F ₂)	0-5,000 ppm	1 ppm
Sulfuryl Fluoride (SO ₂ F ₂)	0-10,000 ppm	1 ppm
Acetaldehyde	0-10 ppm	0.01 ppm
Iodine (I ₂)	0-50 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.erantex.com/products/mic-600/>