GT Series Gas Monitor

Brief Introduction

- The latest mechanical and electrical technologies offer a state-of-the-art design for any gas detection need. The GT Series Gas Monitors, developed by Focused Photonics (Hang Zhou) Inc. (FPI), provide continuous monitoring of hazardous gases.
- Advanced sensing technologies monitor against the threat of combustible and toxic gases and for oxygen deficiency, utilizing catalytic and electrochemical gas detection methods.
- GT Series Gas Monitors are suitable for indoor and outdoor applications in virtually any type of industry including refineries, chemical and petrochemical facilities, steel mills, water and wastewater plants, mining, and general industry.
- GT Series Gas Monitors, can operate completely stand-alone with a large LCD display, remote controller, or connected with a standard 4-20mA output to a control system (PLC, DCS, etc.).

Product Features

- It supports infrared intercommunication, provides the customers with strong and humanized functions
- You can achieve the following functions through the infrared bidirectional remote control:
  - Set the alarm parameters wirelessly, read the alarm status wirelessly, with easy operation and maintenance
  - "One-key calibration" and "one-key zero adjustment", which improve the operation efficiency evidently
- Built-in unique algorithm, which improves the measurement precision and accelerates the response speed evidently
- Unique, convenient installation device provided, easy installation and maintenance
- Unique temperature measurement and transformation function provided

Technical Specifications

Gas Types	Toxics
Temperature Range	
Oxygen and Toxics	-30℃ to 50℃ (typical, range on some models may differ)
Combustibles	-40℃ to 70℃
Drift	
Zero Drift	< 5% / year, typical
Span Drift	< 10% / year, typical
Accuracy	
Repeatability	±1% Full Scale, typical
Linearity	±2% Full Scale, typical
Response Times	
T_{90} toxics	< 15s (CO、H_2S)
T_{90} oxygen	< 10s
T_{90} combustibles	< 30s
Humidity	15% to 95% RH, non-condensing
Sensor Life	
Oxygen and Toxics	2 years typical
Combustibles	3 years typical
Input Power	10 V DC to 30 V DC
Wiring Requirements	
Combustible	3-wire
Oxygen and Toxics	3-wire;LEDs, LCD and relays
Signal Output	4-20mA current source
Relay Contacts	
Rating	1 amp@ 220 VAC; 1amp@ 30 VDC
Conduit Entries	Two entries, G 1/2'
Defense Grade	IP 65
Explosion-proof Grade	Exd IIC T6
EMC	IEC 61000-4-2 IEC 61000-4-4

GT-1030 (Combustibles)

Measured gas	Molecular formula	Measuring range
Hydrogen	H_2	0~100LEL%
Methanol	CH_4O	0~100LEL%
Ethanol	C_2H_6O/C_2H_5OH	0~100LEL%
Dimethylbenzene	C_8H_{10}	0~100LEL%
Toluene	C_7H_8	0~100LEL%
Benzene	C_6H_6	0~100LEL%
Aether	$C_4H_{10}O/C_2H_5OC_2H_5$	0~100LEL%
Methane	CH_4	0~100LEL%
Ethane	C_2H_6	0~100LEL%
Propane	C_3H_8	0~100LEL%
Butane	C_4H_{10}	0~100LEL%
Ethene	C_2H_4	0~100LEL%
Propylene	C_3H_6/CH_3CHCH_2	0~100LEL%
Butadiene	C_4H_8	0~100LEL%
Ethyne	C_2H_2	0~100LEL%
Acetone	C_3H_6O/CH_3COCH_3	0~100LEL%
Acetic acid	$C_2H_4O_2$	0~100LEL%
Formaldehyde	CH_2O	0~100LEL%
Acetaldehyde	C_2H_4O/CH_3COH	0~100LEL%
Cyclopropane	C_3H_6	0~100LEL%
Chloroethylene (VCM)	CH_2CHCl	0~100LEL%

GT-1020 (Toxics and oxygen)

Measured gas	Molecular formula	Measuring range
Carbon monoxide	CO	0-250-500-1000-2000ppm
Sulfured hydrogen	H_2S	0-50-100-200ppm
Oxygen	O_2	0-25%-30%vol
Chlorine	Cl_2	0-5-10-20ppm
Ammonia	NH_3	0-50-100-300-500ppm