



GM100M Series LCD Alarm System



Safe and Reliable

- Hierarchical distributed architecture, reduce cabling costs, improve network transmission speed, improve system reliability
- Multiple monitoring, each lower level operates independently, not affected by other alarm damage or network outages
- Electrical safety in accordance with IEC60601-1-1
- Electromagnetic compatibility conforms to IEC60601-1-2



Strong Versatility

- Compatible with various sensors, receiving different input signals, providing you with comprehensive detection data, such as gas pressure, flow rate, concentration and ambient temperature, humidity, etc., while also realizing the detection of nonlinear parameters



Humanized Display

- Equipped with LCD display, clear reading, and clear system status at a glance
- One device can set multiple sets of monitoring requirements data



International Leading Standard

- Designed and manufactured according to international advanced standards and concepts such as NFPA 99, HTM02-01, ISO 7396-1, etc

GM100M SERIES LCD ALARM SYSTEM

- GENTEC® GM100M series medical gas alarm system with LCD touch screen display, measurement data intuitive, easy to operate.
- Accept a variety of different types of input signals, can monitor 8 sensors, the standard DISS gas connector is designed to prevent gas type misconnection.
- The built-in network communication function can be easily integrated into the network system to achieve remote real-time monitoring.
- Suitable for medical gas monitoring system to realize e-Hospital intelligent hospital management.



Personalized Control

- Advanced software system can be personalized design of the main control interface, so that the operating status and parameters of the equipment are more visual.
- Touch screen, easy to operate, not only greatly improve work efficiency, but also effectively avoid system control errors



Intelligent Self-start

- The main board is equipped with watchdog function, even if the system crashes or power off and resets, the system will self-detect and automatically restart, restore the normal operation of the alarm, to ensure the effective monitoring of the hospital gas supply system



Network Communication

- The built-in RS-485 communication interface can realize the signal remote transmission between the alarm and the system host through the network, which can meet the needs of high-level monitoring, and can set monitoring parameters online
- Through central monitoring, trend data archiving and analysis, intelligent hospital monitoring is realized and work efficiency is improved

A GM100M provides area, master and combination alarm signals



GM100M-A



Area alarm

As an area alarm, it is capable of continuously monitoring up to 8 gas sensor modules, mounted locally or remotely. Programmable units of measure of each gas to read psi, mmHg, kPa, MPa or bar. Alarms are preset with NFPA alarm values but are field adjustable for lower and upper limit alarm values.



GM100M-D



Master Alarm

As a master alarm, it can monitor up to 14 points. The status of each point is continuously monitored; Gray is for normal condition, Yellow for caution that the alarm limit is almost reached, and Red when the alarm limit is reached and alarm triggered



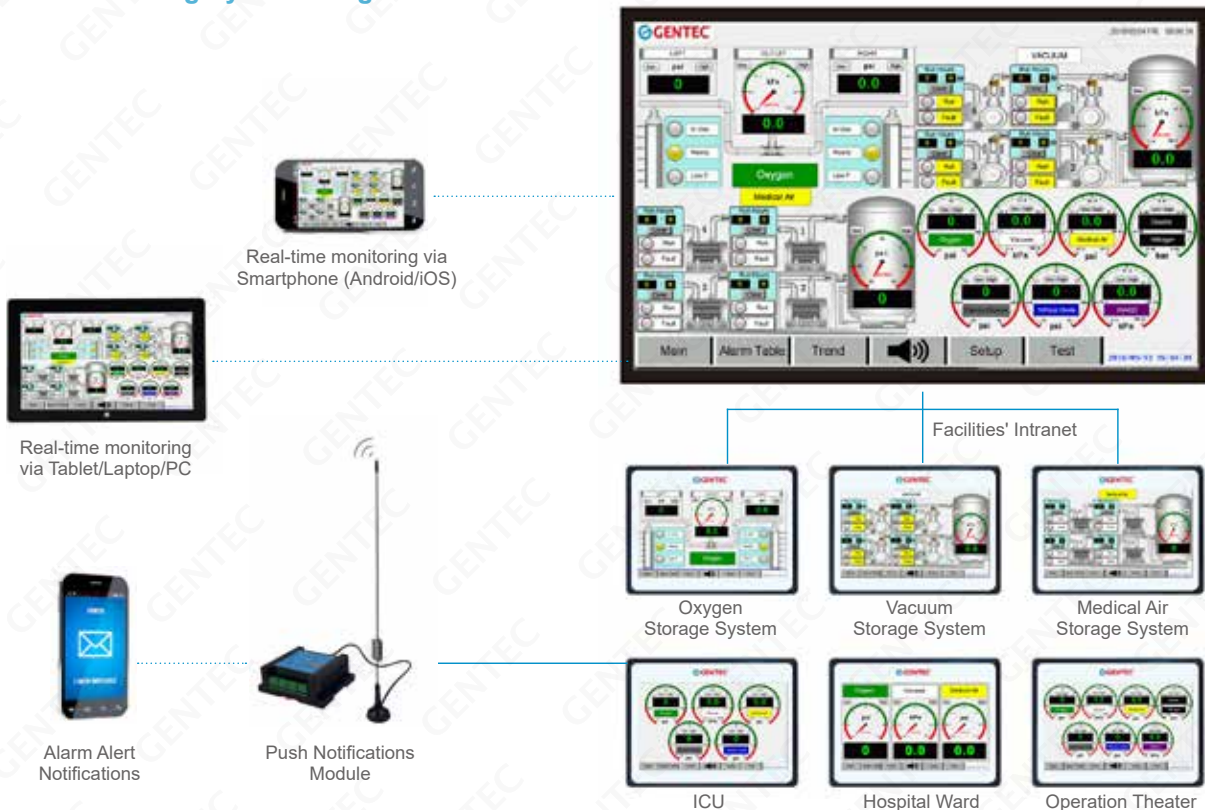
GM100M-C



Combination Alarm

As a combination alarm, it can monitor dry contacts, digital gas sensor modules and 4-20mA transducers as an area and master alarm displayed on the Touch Screen LCD.

Central Monitoring System Integration



Specifications

ELECTRICAL		COMMUNICATE	
Power Requirements	Input: 100~240 VAC,50~60Hz 1A	RS-485 Modbus RTU	9600 / 19200 baudrate (8,N,1)
Processor	32-bit RISC Micro-controller	UDP	Modbus RTU over UDP
Monitor	10.1" TFT LED Backlit, Resolution: 1024x600 Pixels Color Depth: 16 bit, 65536 Colors Brightness: 200 cd/m2 Touch Screen: 4-wire resistive (Hardness 4H) Durability: 50000 hours	Modbus TCP	10/100 M Automatic Selection for Ethernet
Electromagnetic Compatibility	Conform to IEC60601-1-2	HTTP Web Server	10/100 M Automatic Selection for Ethernet
Electrical Safety Requirements	Conform to IEC60601-1-1	AUTHENTICATION	
Buttons	Resistive touch buttons	Authentication	ETL, CE
Buzzer	Adjustable Volume		
MECHANICAL		ENVIRONMENT	
Front Panel	Metal Alloy & ABS	Ambient Temperature	14°F ~158°F (0°C ~ 50°C)
Overall Size	280 x 193 x 85 mm (Depth x Height x Width)	Ambient Humidity	10% ~85% RH, non-condensing
Beneath the Wall	262 x 181 x 80 mm (Depth x Height x Width)	Cooling	Natural Air Cooling
INPUT AND OUTPUT			
Analog Input	Number of Channels:8 Input:4-to-20 mA Double-wire Transmitter Input ADC Resolution: 14 bit or Range of Sensor within 1%	Relay Output	Number of Channels:7 Maximum load:0.15 A at 48 VDC 1 A at 30 VDC 0.5 A at 120 VAC
Digital Input	Number of Channels: 14 Input: Dry Contact or TTL	Analog Output	Number of Channels:2 Maximum load:0-20mA (maximum), in relation to 1~5V current for 4~20 mA Double-wire Transmitter

Ordering Information

GM100M	- A	R	- 3	(OVA)	- 6
Series Number	Alarm Type	Transducers	Number of Gases	Gas Type	Relay Inputs
GM100M	D: Digital input	Blank: None	Blank: None	Blank: None	1: 1 input 2: 2 inputs ...
	C: Combination input	R: Remote	1: 1 Gas 2: 2 Gases 8: 8 Gases	O: Oxygen V: Vacuum A: Medical Air 2: Nitrous Oxide C: Carbon Dioxide N: Nitrogen I: Instrument Air W: WAGD/AGSS	14: 14 inputs
	A: Analog input				Blank: None



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