



# GASMETRY

## GAS MONITORING TOUCH SCREEN SYSTEM



**The GASMETRY gas monitoring control system is design with embedded micro processor modular and provided to monitor the ambient gases.**

**Man Machine Interface Touch Screen on user-friendly design.**

**Web server application allowing remote control between different types of computer.**

**Embedded Control System**

The GASMETRY compose FRP or steel enclosure containing several modular receiver, one power supply, and a uplink communication port.

The enclosure provided a TFT LCD to allow access to controls without tools, and enclosure suitable for wall or surface mounting.

The controller monitor provide a back light LCD display of gas concentration, plus alarm indication for Warning, Alarm, and Trouble status.

Two programmable alarm setpoints provided for warning personnel of differing levels of leakage.

Gas leak alarms indicated by 3 colors bar graphic on the alarm receiver and activation of the audible horn.

The concentration of the gas displayed directly in touch screen units. total alarm relays provided for external alarming functions.

In addition, a separate trouble alarm provided on each receiver to indicate the loss of signal from the sensor/transmitter.

A sensor/transmitter provide the gas measurement function for the system, the detector signal for measurement that shall generate a signal linearly proportional to gas concentration.

The sensor shall be close coupled to an electronic amplifier to boost the signal level, and the entire assembly shall be coated to minimize potential RFI interference.

Sensor/transmitters shall transmit gas concentration signal to avoid electrical interference, and shall be capable of communicating over a minimum of 1000 feet conductor cable.



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## GAS MONITORING TOUCH SCREEN SYSTEM



**Enclosure:** Enforce fiberglass  
**Dimension:** 430 (W) x 530 (H) x 200(D) mm

**Analog Single Input:**  
24 Channel 4-20mA or 0-5VDC  
Support 3Wire 24Vdc Sensor with 1A power fuse for over current projection  
**Digital Single Input:**(option Item)  
16 Channel with photo couple isolation protection, by external control modules.

**Digital Single Output:**  
3 dry contact rating 110VAC/10A  
3 open collector rating 24VDC/Max load 600mA

### General Specifications

#### LCD Touch Screen :

10.4-inch color TFT LCD, 800 x 600 resolution, 180 cd/m2 brightness

#### Wall-mounting :

Wall-mount kit is available

#### Water-Proof Front Panel

100% water-proof front. Meet IP-65, 56, NAMA-4, 12 water resistant standard.

#### Touch Screen :

4-Wire analog resistive touch screen

#### CPU : Low power 533Mhz

Low power 533MHz CPU

#### Serial port : 4 x COM ports

3 x RS232 and 1 x RS232/485  
COM1 are exposed. COM2,3, 4 on board

#### USB : 2 x USB 1.1

one are exposed, one on board

#### One Ethernet : 1 x LAN

One 10 Mbps RJ45 Ethernet Port

#### Parallel Port :

LPT port for Printer connection.

#### Keyboard and Mouse :

One PS/2 Mouse port and one PS/2 Keyboard port

#### Industrial Grade :

This is a high-end industrial grade embedded controller used for home, industrial, medial, environments

#### Vibration Resistance

Meet IEC-60068 life random vibration test from 500 Hz at 2G RMS under Windows XPe.

#### Shock Resistance

Meet IEC-60068 life Shock Test at 15G for 11ms duration under Windows XPe.

#### Power Supply

Standard AC 100~V220V power supply.  
Optional : DC 24V

#### Operating Temperature :

0 to 35 Deg C

#### Compact Flash Connector :

**44-pin ICE Flash Disk**  
Type I/II SF Slot x 1

#### Operation System:

Microsoft Embedded Xpe

**Enclosure:** Enforce fiberglass or Paint Steel



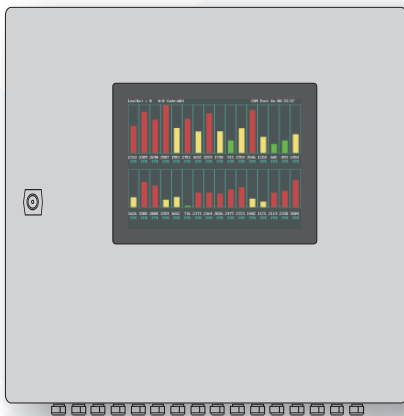
**Enclosure:** Paint Steel

**Dimension:** 600 (W) x 600 (H) x 250(D) mm

**Analog Single Input:**  
32 Channel 4-20mA or 0-5Vdc  
Support 3Wire 24Vdc Sensor with 1A Fuse for over current projection

**Digital Single Input:**  
32 Channel with photo couple isolation protection

**Digital Single Output:**  
32 Channel relay rating 10A 110VAC



**Enclosure:** Steel

**Dimension:** 600 (W) x 800 (H) x 300(D) mm

**Analog Single Input:**  
48 Channel 4-20mA or 0-5Vdc  
Support 3Wire 24Vdc Sensor with 1A Fuse for over current projection

**Digital Single Input:**  
48 Channel with photo couple isolation protection

**Digital Single Output:**  
48 Channel relay rating 10A 110VAC



**Enclosure:** Steel

**Dimension:** 800 (W) x 800 (H) x 300(D) mm

**Analog Single Input:**  
64 Channel 4-20mA or 0-5Vdc  
Support 3Wire 24Vdc Sensor with 1A Fuse for over current projection

**Digital Single Input:**  
64 Channel with photo couple isolation protection

**Digital Single Output:**  
64 Channel relay rating 10A 110VAC

