

TOTAL SOLUTION FOR GAS DETECTION SYSTEM

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GTC-100 Series

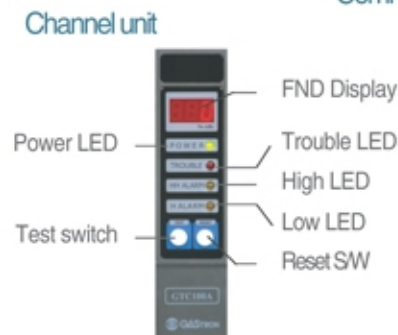
MULTI-CHANNEL TYPE



- Integrated type controller with built-in micro processor
- Connectible with all kinds of gas detector
- Easy expansion with international standard din type case
- Various type receiving unit (wall mount, panel mount, 19" rack type)
- Gas concentration display with 3-digit
- High quality and low cost of ownership
- 2 Alarm level LED display and relay contact output
- Easy configuration of monitoring system with RS-485 Modbus serial communication
- Programmable Alarm setting (level, delay time, & etc)
- Peak hold
- Self diagnosis
- Backup power unit (Optional item)

GENERAL

- GTC-100 is integrated type controller with micro processor. This is connected with gas detectors at on site and continuously display gas concentration and give alarm.
- Each common unit can connect with a lot of channel unit (up to 64)
- 3 digits display clearly indicates operation condition of each channel unit and gives visual signal (alarm lamp) and audible signal (buzzer) when gas concentration exceeds alarm level
- Micro processor give user programmable function (alarm concentration setting, alarm delay time, relay output setting & etc) to easily configure most suitable gas monitoring system
- Micro processor automatically checks system condition. When there is a trouble, micro processor give signals (trouble LED, alarm, indication on FND and trouble relay output) to immediately handle the trouble.
- GTC-100 design is simple and total cost of ownership is very low with high quality
- GTC-100 produces 2-alarm and Trouble output to interlock with other devices (gas shut-off valve, beacon and venting FAN)
- GTC-100 has various outputs (4-20mA DC, 2 -alarm, trouble alarm, RS-485 (Option)) to interface with outer equipments (DCS, PLC, monitoring system)
- Backup power unit (Optional item) can be equipped to show charging condition.



[Option item]



SPECIFICATION

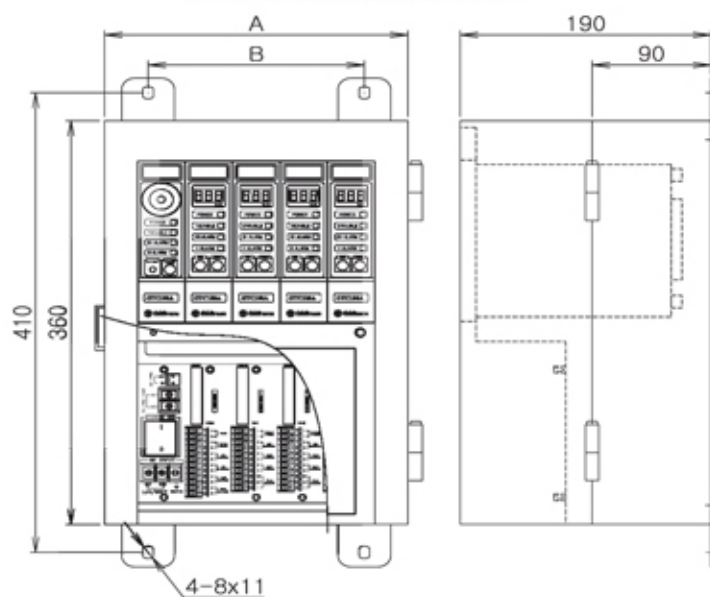
MULTI-CHANNEL TYPE GAS MONITOR

	GTC-100A COMMON (ALARM UNIT)	GTC-100A CHANNEL (DENSITY INDICATING UNIT)
Model	GTC-100A COMMON (ALARM UNIT)	GTC-100A CHANNEL (DENSITY INDICATING UNIT)
Operation display	5-LED (Power, 2-alarm, Trouble Buz. stop)	4-LED (Power, 2-alarm, Trouble)
Measuring display		3-Digit FND
Measuring range		1~999 (programmable) (%LEL, ppm, % Vol)
Alarm display	Visual: 2-Alarm, Trouble LEDs Audible: buzzer	Visual: 2-Alarm, Trouble LEDs
Alarm output signal	2-Alarm, Trouble, Buzzer AC250V/5A relay contact (SPST)	2-Alarm, 1-Trouble AC250V/5A relay contact (SPST)
Alarm level set		Programmable within detection range
Input signal		4-20mA DC (2 wire or 3 wire)
Output signal	RS-485 Modbus (option)	4-20mA DC (option)
Reset signal	Reset switch and remote control	Reset switch
Program set mode		Alarm value & type (Low, High alarms) Alarm time (instant & delay (1~60 sec)) Alarm dead band
Operating temperature	-20°C ~ +50°C	
Operating humidity	0 ~ 99%RH (non-condensing)	
Operating power	Single : 18~30V DC (24V DC normal) / 100mA max. Multi channel type : AC 110 / 220V	
Battery power	Aux. power unit (option) 24V DC / 600mA, 1300mA (option)	

※ Specifications are subject to change without prior notice.

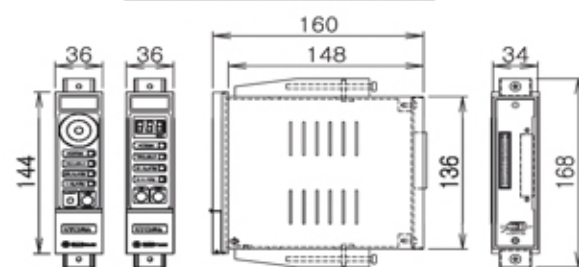
DIMENSION (unit : mm)

GTC-100A WALL MOUNT

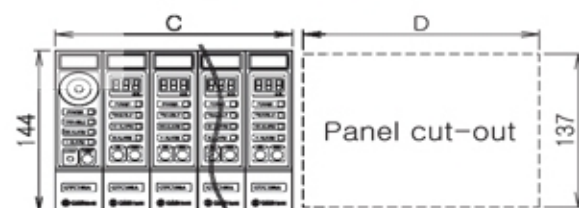


CHANNEL	A(mm)	B(mm)	CHANNEL	A(mm)	B(mm)
4 CHANNEL	230	164	8 CHANNEL	384	308
6 CHANNEL	302	236	10 CHANNEL	446	380

GTC-100A CARD UNITS



GTC-100A PANEL MOUNT



PANEL DIMENSION CALCULATION

$$C = (\text{No. of Channel Card} + 1) \times 36$$

$$D = C - 1$$