Honeywell



Flexible configuration and independent operation of multi-channel gas control system

FMC-1000Plus

summary

FMC-1000Plus series is an intelligent gas alarm controller, which adopts the working mode of channel independent operation and centralized control, and can be connected to various gas detectors with 4~20mA analog signal output.

Depending on the installation method, the controller is available in two types: the panel-mounted (model: FMC-1000Plus) and the wall-mounted (model: FMC-1000Plus-W). The panel-mounted version features a standard 19-inch 4U panel design, offering a modular structure that simplifies and enhances installation. The wall-mounted version follows the traditional PLC installation method, requiring only a single track for easy and flexible installation.

The controller is highly flexible, with each single channel capable of operating independently. Users can select the number of channel cards, external power supply modules, and 4~20mA synchronous output modules based on their specific needs. Additionally, the controller supports RS485 MODBUS communication for remote control. It meets the safety and reliability requirements of hazardous industrial environments while allowing users to customize products according to their specific operational conditions. The controller also features on-site audio-visual alarms, alarm record storage and retrieval, and alarm and fault switch outputs, enabling flexible control over external alarms, exhaust systems, and other devices. To meet user needs, it has added 'remote reset' and 'remote mute' functions.



Typical application



Industrial manufacturing and chemical industry



Industrial manufacturing and chemical industry



power plant



sewage disposal



pharmacy



Public utilities printing printing



Public utilities



drilling platform



Petroleum and petrochemicals



foodstuff

main features

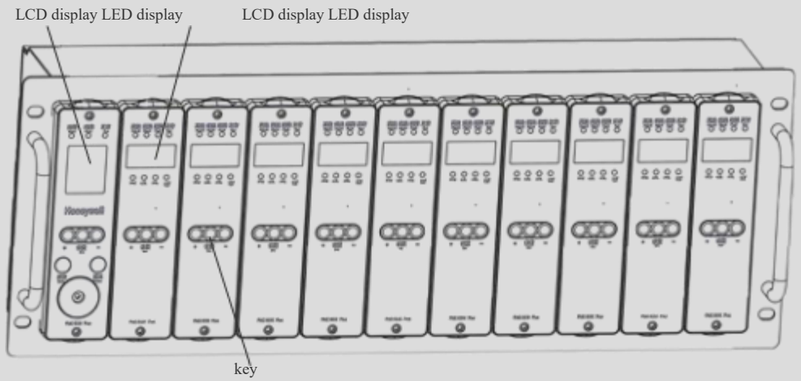
- It is easy to install, supports disk mounting and wall hanging, a single channel can work independently,
- supports free combination flexible configuration, and a variety of expansion modules can be selected
- Standard RS485 output, support Modbus
- The LCD dot matrix display of the master card is rich in information; the channel card highlights the LED display, which is simple and clear
- Supports a variety of gas types and measurement units
- Chinese and English operation menu is optional
- Level 2 alarm switch quantity, level 1 fault switch output (single card) supports alarm record storage and query function
- It can output 4-20mA signal synchronously to the outside (optional)
- and reset and mute the controller remotely
- The external power supply is convenient for installation and conforms to GB16808-2008



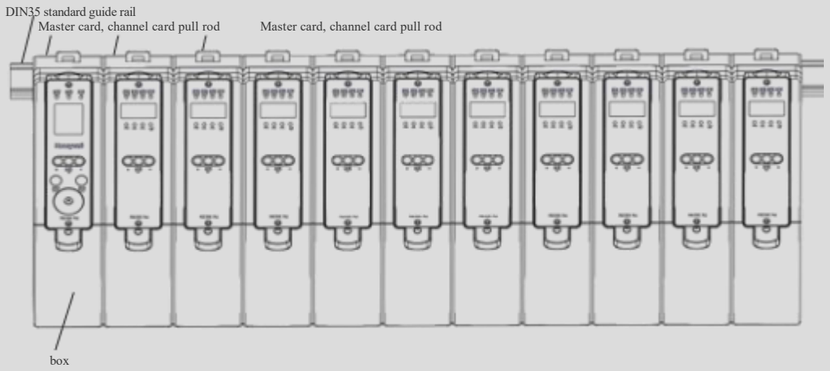
front elevation

The user interface of the controller primarily consists of the display and operation interfaces for the main control card and channel cards. These include an LCD screen, LED status indicators, an alarm buzzer (installed inside the main control card), and operation buttons. The main control card features 3 operation keys, 1 reset key, and 1 mute key, while the channel card has only 3 operation keys, as shown in the figure below.

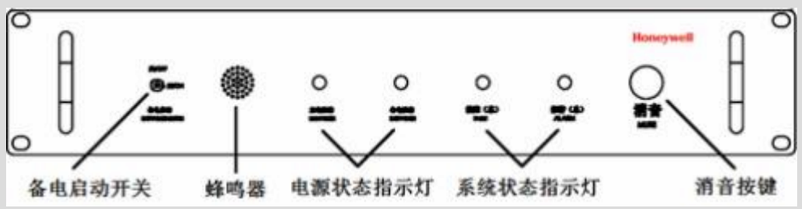
FMC-1000Plus



FMC-1000Plus-W



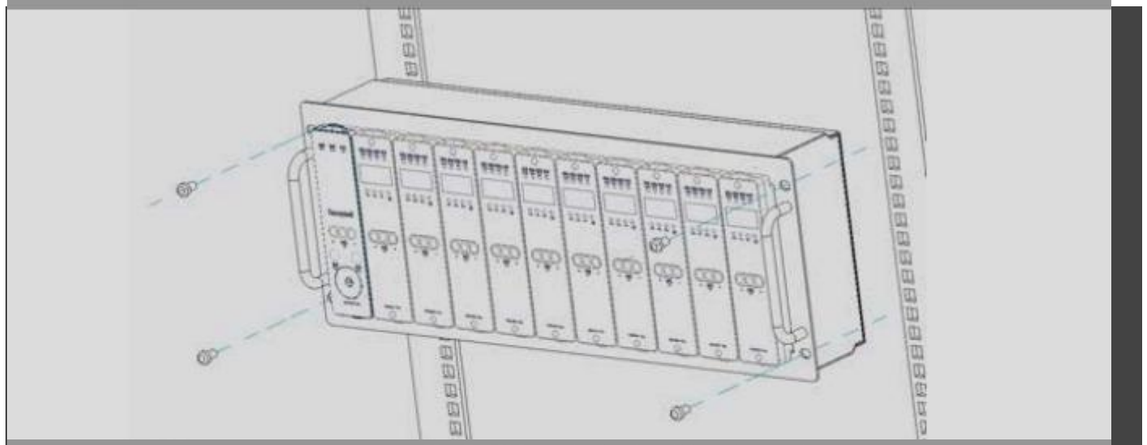
ComPower Power supply



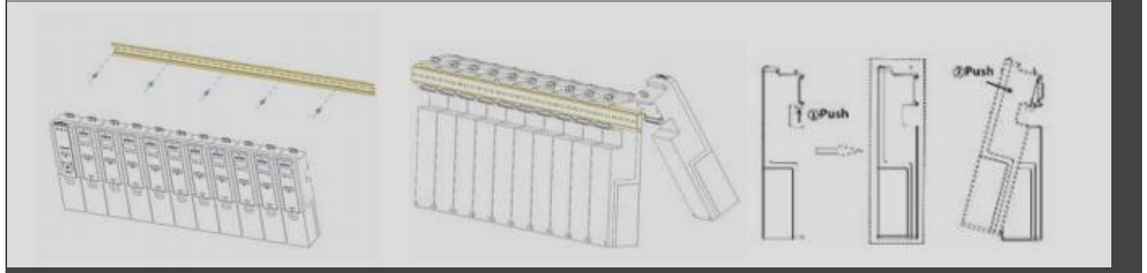


way to install

Cabinet installation method



Use DIN35 standard rail wall hanging mode



Note: DIN35 needs to be purchased by the user, and our company will not provide it.

technical parameter

FMC-1000 Plus/FMC-1000 Plus-W			
essential parameter	working power supply		24VDC, 5A
	standby battery		24VDC, 7.2Ah
	Output power supply		24 VDC, 500mA (per channel)
	operate mode		Each channel is independent
	power		100W (full load)
	incoming signal		4~20mA (2-wire / 3-wire detector)
	output signal		4~20mA per channel (optional)
Output/alarm	Call logs		Time, concentration, alarm channel, alarm type
	Alarm Settings		Overlimit alarm (alarm above set value, two levels can be set), interval alarm (applicable to oxygen)
	Alarm function		Independent LED lights at all levels and different frequencies of sound alarms distinguish different alarm levels
	Alarm output		Three levels of alarm are provided for high, low and fault in each channel
	Relay contact capacity		220VAC,5A
	communication interface		RS-485 MODBUS
enviromental parameter	ambient temperature		-20℃-+50℃
	ambient humidity		0-99% RH (no condensation)
	ambient pressure		86kPa-106kPa
show	show way	Master card	96x128 dot matrix LCD with backlight
		Channel card	Four eight-bit digital tube LED
	scaling position		It can be set
	certainty of measurement		Flammable gas: ±3%LEL Other gases: ±5%FS
appearance	outline dimension		Packaging: 177×482.6×82mm (HWD) Wall mount: 246×660×58.6mm (HWD)
	The color of the shell		silvery

Power Supply Voltage		
essential parameter	working power supply	220VAC, +10%, -15%; 50Hz±5Hz
	Output power supply	28VDC±0.5 V, 5A
appearance	outline dimension	88×482×290mm (HWD)

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