

ADVANCED MICON ALARMS



ST-700 / ST-800 Series



ST-700 series

- ST-700 Gas alarm
- ST-710 Carbon monoxide alarm
- ST-720 Compound alarm (CO + GAS)

ST-800 series

- ST-800 Gas alarm
- ST-810 Carbon monoxide alarm
- ST-820 Compound alarm (CO + GAS)

Features :

1 Gas alarm meets UL 1484 standard; Carbon monoxide alarm
meets the most recent UL 2034 standard; Compound alarm meets the
both standards.

2 Built-in the high tech carbon monoxide sensor and (or) the gas sensor, has the high sensitivity, the high stability, and the high gas selectivity's characteristic, may precise detect the carbon monoxide and (or) the gas concentration.

3 With the advanced high tech microprocessor and the wisdom control, processing the precise computation of the carbon monoxide's concentration and through time, and have much intelligent control.

4 Provide the test / silence button, besides internal self-diagnosis, under the stand-by status, may lightly press the test / silence button to test the alarm. This button also provides the specialist to test the system link when continuously presses the button for 8 seconds.

5 Provide the power switch button, it automatically turn on when inserts the power source, when continuously press the button for 1 second, it will turn off, and has the key tone. This button provides the specialist to use; usually this product should setting for the turn on condition.

6 Built-in the high efficiency wide-range Switching Power Supply, suitable to the universal voltage.

Selection guide :

Gas alarm	S T - 7 0 0 8 0 0	□ □ □ □	
CO alarm	S T - 7 1 0 8 1 0	□ □ □ □	
Compound alarm	S T - 7 2 0 8 2 0	□ □ □ □	
		↓	DESCRIPTIONS
Power supply	— — — — —	{ A D ↓	— AC100~240V; 50~60Hz — DC9~15V
Panel signal link	— — — — —	{ R V ← ↓	— Relay dry contact output (COM, N/O, N/C) — Voltage signal output (0/6/12/18V) — (Blank & Shift)
Valve control link	— — — — — —	{ E M ← ↓	— Electromagnetic or Solenoid valve control — Mechanical valve control — (Blank & Shift)
Optional link	— — — — — — —	{ B P	— Bi-directional (I/O) or Earthquake sensor link — Pilot lamp or Entrance indicator link — (Blank)

Example: ST-810ARB means CO alarm, AC power supply, Relay dry contact output, and Bi-directional (I/O) link. (Refer to the System link instruction).



Specifications :

Model no.	ST-700 / ST-800	ST-710 / ST-810	ST-720 / ST-820
Model name	Gas alarm	Carbon monoxide alarm	Compound alarm
Target gas	GAS (LNG & LPG)	CO (carbon monoxide)	CO + GAS (LNG & LPG)
Detect mode	Semiconductor type or hot-wire	Semiconductor type	Semiconductor type or hot-wire
Threshold	Meets UL 1484 standard	Meets the most recent UL 2034 standard	Meets the both standards (UL 1484 & 2034)
Power LED	Blue (Pendular scan usually)	Blue (Pendular scan usually)	Blue (Pendular scan usually)
Alarm LED	Red blinking per half-second	Red blinking per half-second	CO/Yellow; GAS/Red. Blinking per half-sec
Fault LED	Yellow blinking per 8 seconds	Yellow blinking per 8 seconds	CO/Yellow; GAS/Red. Blinking per 8 sec
Warning sounds	High/low tone, repeat, 85dB/3M	4 quick beeps, 5 seconds off, repeat, 85dB/3M (as UL 2034)	According to the GAS or the CO warning, as left (Gas first if synchronize)
Trouble sound	Beep per 24 seconds	Beep per 24 seconds	Beep per 24 seconds*
External warning	Sounds & Power LED: Twice every half-second, stops half-second, repeat continuous. (Refer to the System link instruction)		
Working temperature	0°C ~ 50°C		
Working humidity	95%RH max.		
Power supply	AC100~240V, 50~60Hz; or DC12V, 500mA external (Refer to the Selection guide)		
Power consumption	Stand-by: around 1W : Warning: 1~6W (According to the link)	Stand-by: around 2W : Warning: 2~7W (According to the link)	
Dimensions	Ø115mmxH38mm (with base)		
Weight	130g (AC, without plug) ; 110g (DC)	135g (AC, without plug) ; 115g (DC)	
Signal link, Valve control & other optional functions: Refer to the Selection guide & System link instruction			

Remark: LNG (Liquefied Natural Gas), LPG (Liquefied Petroleum Gas) *: Refer to the [Status and operation instruction](#)

Concerning the gas alarm's threshold, UL 1484 (Residential Gas Detectors) standard: The gas concentration has not reached the 1/100 LEL must not warning; the gas concentration between 1/100~1/4 LEL must warning. The unit setting at 1/10 LEL, meets UL 1484 standard.

CO alarm is the last defense line of prevents the carbon monoxide poisoning. UL 2034 (Single and Multiple Station Carbon Monoxide Alarms) has the most detailed standard. The unit conforms to the most recent UL 2034 standard.

The matches valves :

Solenoid valve (Model: V15 or V20)

- During normal status, the valve is no power consumption, energy saving and high safety.
- The pipeline bursts, boils the overflow, blows out ... and so on cause which the gas leaks, gas alarm output the 12V pulse signal to the valve to interrupt gas.
- The pull rod has the dustproof and waterproof cover. Meet IP-54.
- Could use the manual control to opens or closes the valve.
- Suits to the pipe size: 1/2" or 3/4" (V15 for 1/2", V20 for 3/4")
- Working pressure: 500mBAR
- Must conjunction the gas alarm or related equipment that provide the signal.
- Corresponding alarm series: ST-800AE, ST-810AE, and ST-820AE...(Refer to the [Selection guide](#))



Mechanical valve (Model: MV-20N)

- During normal status, the valve is no power consumption. Suit for any working pressure.
- When the gas concentration achieved the threshold, the alarm provides DC12V to the mechanical valve, automatically turns off the gas, guarantees the security.
- With manual shut-off and reset button.
- Directly installs on the ball valve. Unnecessary to cut off the gas pipeline, installs conveniently.
- The substitution product of the solenoid valve, must conjunction the gas alarm or related equipment that provide the signal.
- Corresponding alarm series: ST-800AM, ST-810AM, and ST-820AM...



For single station use : If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

Specifications improvement in this catalog will be change without prior notice



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