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AGS1000 SERIES CONTROL PANEL

The AGS1000 series control panel is used to connect gas detectors of AIYI Technologies. Each channel configuration is customizable with reliable performance. Among them, AGS1000B is equipped with UPS uninterruptible power supply, and AGS1000D is an explosion-proof type, which can meet the different needs of different places. They are widely used in petroleum, chemical, energy, steel, metallurgy, gas, and other industries.

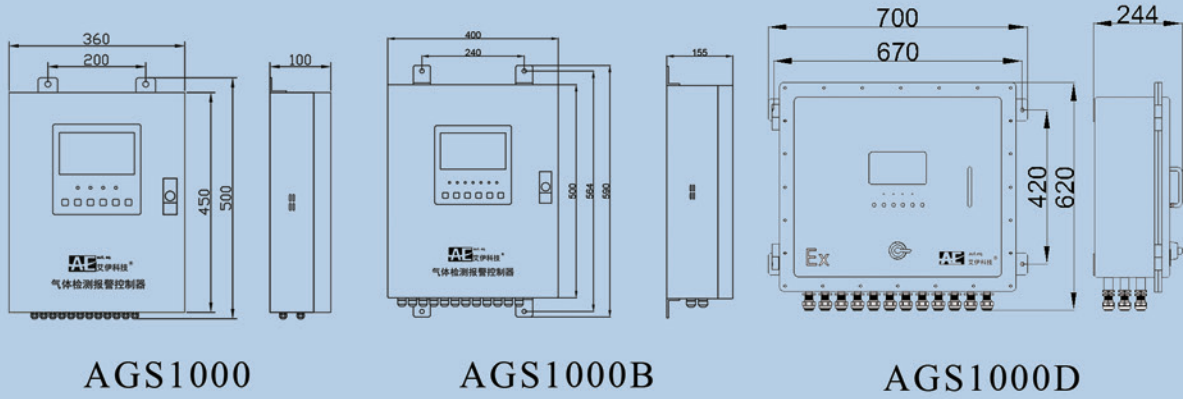
Features

- 4-20mA, RS485 signal input is optional.
- Up to 64 channels (RS485), up to 32 channels (4-20mA),
- Large color LCD display with rich information and sound alarm.
- Real-time status indication with light for power, alarm, fault and self-test.
- Multi functions with channel block, alarm set, and fault alarm. Support to check alarm records and fault records.
- AGS1000B has a built-in UPS, which can still work normally after the main power is cut off.
- Built-in 3 relays (alarm-1, alarm-2 and fault)
- Wall-mounted carbon steel housing, much durable.

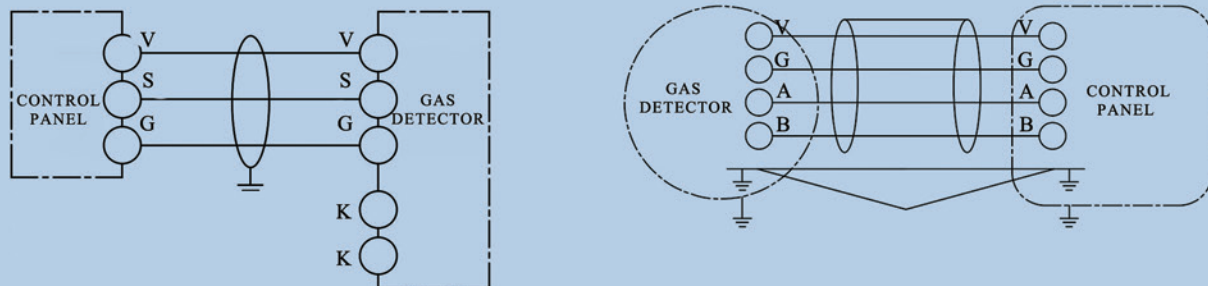
Specifications

Description	Specifications	AGS1000	AGS1000B	AGS1000D
Function				
channels	4-20mA: 8/16/24/32 is optional	●	●	●
	RS485: up to 64 channels	●	●	●
suitable detector	detectors with 4-20mA or AE-RS485	●	●	●
Electric				
power supply	220VAC	●	●	●
power consumption	≤8W	●	●	●
signal input	RS485/4-20mA	●	●	●
signal output	RS485	●	●	●
wiring	4-20mA: three-wire	●	●	●
	RS485: four-wire	●	●	●
suitable cable	RVVP3*1.5/4*1.0mm ²	●	●	●
relay output	3 passive relay (250VAC/5A 30VDC/5A)	●	●	●
Display & Operation				
display	LCD	●	●	●
indicator light	alarm, fault, power, self-test	●	-	●
	power,backup power,alarm,fault,block	-	●	-
operation method	button	●	●	●
Environment				
operating temp.	0℃～40℃	●	●	●
operating humidity	10～95%RH non-condensing	●	●	●
operating pressure	80-120kPa	●	●	●
Structure				
body material	carbon steel withelectrostatic spraying	●	●	●
weight	about 7.5kg	●	-	-
	about 16.5kg	-	●	-
	about 50kg	-	-	●
Dimensions	500*360*100mm(H*W*D)	●	-	-
	590*400*155mm(H*W*D)	-	●	-
	700*620*244mm (H*W*D)	-	-	●
Certificate				
SIL	SIL2	●	-	-
EX	Exd II BT6	-	-	●

Dimensions



Wiring





GAS DETECTION SYSTEM

Gas detection system can be widely applied in places such as petrochemical engineering, chemical engineering, steel, metallurgy, pharmaceuticals, electricity, food, and logistics where the monitoring of flammable and toxic gas is needed.

The system is made of gas detector, controller and sound-light alarm, and the gas concentration data will be uploaded to the control panel. The controller collectively displays the gas concentration data of different monitoring points, and the sound-light alarm will be set off in case that any concentration exceeds over the default value. Linkage feature can be realized and the data can be also uploaded to host systems such as DCS/IPC.

FUNCTION

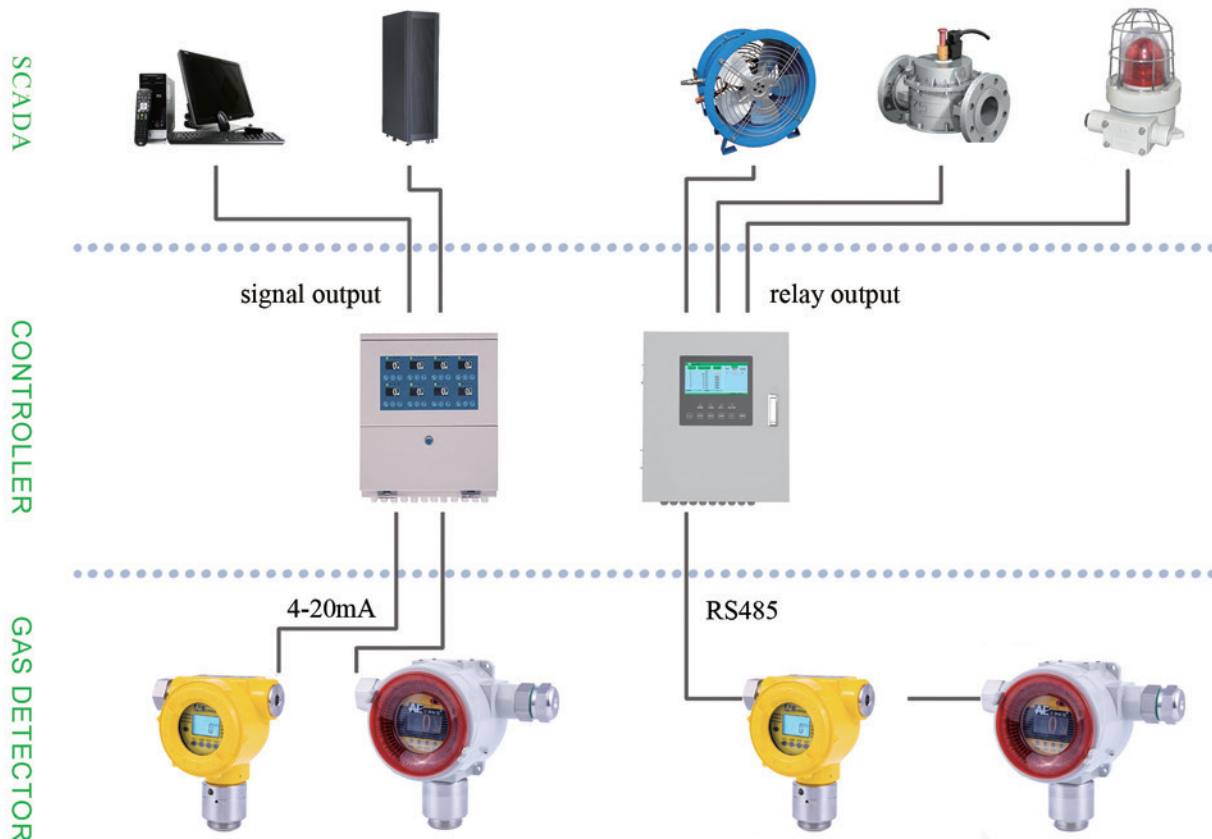


DIAGRAM of GAS DETECTION SYSTEM

1. gas detector

The gas detector is fixed in areas such as the workshop, warehouse, and storage tank for real-time monitoring of the concentration of flammable and toxic gases.

2. zone control

The controller collectively displays the gas concentration, and the sound-light alarm will be set off in case that any concentration exceeds over the default value.

3. The interlock control

It comes with relay output and fault output for the performing of automatic fan, spray, valve, and alarm.

4. The host computer

Standard 4-20mA and RS485 signal output, compatible with host computers such as DCS/PLC/IPC.



SELECTION GUIDE

QUICK SELECTION TABLE 1 -- FIXED GAS DETECTOR

Description	AG310 series					AG210 series				AG200 series		
	GTQ-AF110	GTQ-AF111	AF110-R	AG310	AG311	AG210	AG211	GTQ-Anr-A	GTQ-Anr-D	AG200	Anr-N	Anr-S
Gas detected												
combustible gas-catalytic	●	●	-	-	-	-	-	●	●	-	●	●
combustible gas-infrared	-	-	●	-	-	-	-	-	-	-	-	-
toxic gas-electrochemical	-	-	-	●	●	●	●	-	-	●	-	-
toxic gas-PID	-	-	-	●	●	●	●	-	-	●	-	-
toxic gas-infrared	-	-	-	●	●	●	●	-	-	●	-	-
toxic gas-semiconductor	-	-	-	●	●	-	-	-	-	-	-	-
Display												
OLED	●	●	●	●	●	-	-	-	-	-	-	-
LCD	-	-	-	-	-	●	●	●	●	-	-	-
Signal output												
4-20mA	●	-	●	●	-	●	-	●	-	●	●	-
RS485	-	●	-	-	●	-	●	-	●	●	-	●
Wiring												
three-wire	●	-	●	●	-	●	-	●	-	●	●	-
four-wire	-	●	-	-	●	-	●	-	●	●	-	●

Note:

1. ● means available, - means unavailable;

2. both oxygen and toxic gas are detected in electrochemical principle, so the toxic gas includes oxygen in the above table.

QUICK SELECTION TABLE 2 -- CONTROL PANEL

Description	AGS1600F	AGS1000	AGS1000B	AGS1000D	JUDD	JUDD-S
Gas detected						
combustible gas	●	●	●	●	●	●
toxic gas	-	●	●	●	●	●
Display						
LCD	●	●	●	●	-	-
OLED	-	-	-	-	●	●
Signal input						
4-20mA	●	●	●	●	●	●
RS485	-	●	●	●	-	-
Wiring						
three-wire	●	●	●	●	●	●
four-wire	-	●	●	●	-	-
Channels	4	1-64	1-64	1-64	1-8	32-128
Installation						
wall-mounted type	●	●	●	●	●	-
cabinet type	-	-	-	-	-	●
UPS	-	-	●	-	-	-
Explosion-proof	-	-	-	●	-	-

Note: The channels of AGS1000, AGS1000B, AGS1000D, JUDD, JUDD-S can be customized.

QUICK SELECTION TABLE 3 -- GAS DETECTED

Gas	Measure Range	Principle	Resolution	GTQ- AF110	GTQ- AF111	AF110-R	GTQ- Anr-A	GTQ- Anr-D	Anr-N	Anr-S	AG310	AG311	AG210	AG211	AG200
Combustible gas	EX	Catalytic	1%LEL	●	●	-	●	●	●	●	-	-	-	-	-
Oxygen	EX	Infrared	1%LEL	-	-	●	-	-	-	-	-	-	-	-	-
Carbon monoxide	O ₂	Electrochemical	0.1%VOL	-	-	-	-	-	-	-	●	●	●	●	●
Hydrogen sulphide	CO	Electrochemical	1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Chlorine	H ₂ S	Electrochemical	1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Sulphur dioxide	CL ₂	Electrochemical	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Ammonia	SO ₂	Electrochemical	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Nitric oxide	NH ₃	Electrochemical	1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Nitrogen dioxide	NO	Electrochemical	1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Hydrogen chloride	NO ₂	Electrochemical	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Ozone	HCL	Electrochemical	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Ethylene oxide	O ₃	Electrochemical	0.01µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Formaldehyde	C ₂ H ₄ O	Electrochemical	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Methanol	CH ₂ O	Electrochemical	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Phosphine	CH ₃ OH	Electrochemical	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Hydrogen	PH ₃	Electrochemical	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Fluorine	H ₂	Electrochemical	1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Hydrogen fluoride	F ₂	Electrochemical	0.01µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Hydrogen cyanide	HF	Electrochemical	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Phosgene	HCN	Electrochemical	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Arsenic hydride	COCL ₂	Electrochemical	0.01µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Silane	AsH ₃	Electrochemical	0.01µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Acrylonitrile	SiH ₄	Electrochemical	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Carbon disulfide	C ₃ H ₃ N	Electrochemical	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Ethanol	CS ₂	Electrochemical	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Sulfur hexafluoride	C ₂ H ₅ OH	Electrochemical	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Methane	SF ₆	Infrared	1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Carbon dioxide	CH ₄	Infrared	0.1%VOL	-	-	-	-	-	-	-	●	●	●	●	●
Toluene	CO ₂	Infrared	0.1%VOL	-	-	-	-	-	-	-	●	●	●	●	●
Xylene	C ₇ H ₈	PID	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Benzene	C ₈ H ₁₀	PID	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Acetic acid	C ₆ H ₆	PID	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Volatile organic compounds	C ₂ H ₄ O ₂	PID	1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
	VOC	PID	0.1µmol/mol	-	-	-	-	-	-	-	●	●	●	●	●

Note: 1. Any gas that not mentioned above, just contact AIYI Technologies for further information; 2. 1µmol/mol=1ppm



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