AGS1600F CONTROL PANEL

The AGS1600F control panel is designed with 1 to 4 channels, which can monitor the alarm in real time, and built-in relay output to realize the function of controlling the interlocking equipment. According to different needs, the product can be widely used in petroleum, chemical, energy, steel, metallurgy, gas, and other industries.
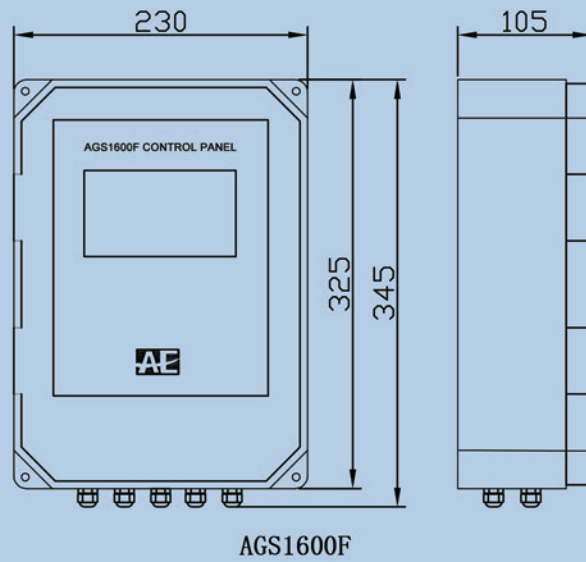
Features

● Products passed the national CCCF certification.

● Large-screen LCD graphics display with rich content.

● Built-in 3 relays for multi-functional control.

● Built-in UPS power supply to prevent potential hazards caused by accidental power failure.

● Wall-mounted carbon steel casing, more durable.

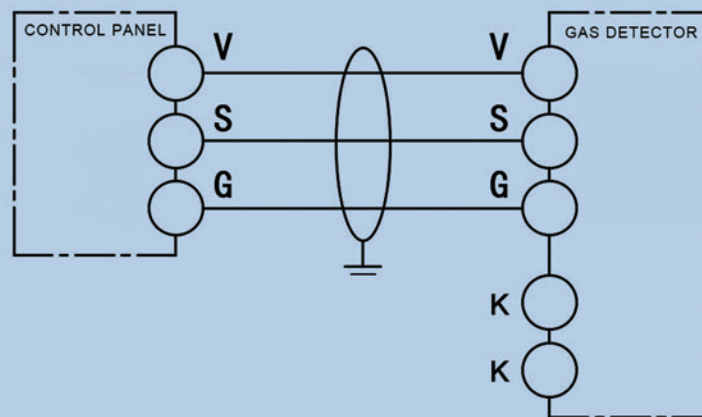● compatible with fixed gas detectors.

Specifications

Description	Specifications	AGS1600F
Function		
channels	4	●
suitable detector	combustible gas detector in 4-20mA only	●
Electric		
power supply	220VAC	●
power consumption	≤6W	●
signal input	4-20mA	●
signal output	RS485	●
wiring	three-wire	●
suitable cable	RVVP3*1.5mm^2	●
relay output	3 passive relay (250VAC/5A;30VDC/5A)	●
Display & Operation		
display	color LCD screen, resolution 480*272	●
indicator light	alarm,fault,power,power fault,backup power fault	●
operation method	button	●
Environment		
operating temp.	0℃～40℃	●
operating humidity	10～95%RH non-condensing	●
operating pressure	80-120kPa	●
Structure		
body material	carbon steel with electrostatic spraying	●
weight	about 6kg	●
dimensions	345*230*105mm(H*W*D)	●
Certificates		
CCCF	073194850084R0M	●
SIL	SIL2	●

Dimensions

230

105

325

345

AGS1600F CONTROL PANEL

AGS1600F

Wiring

CONTROL PANEL

V
S
G

GAS DETECTOR

V
S
G
K
K

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.
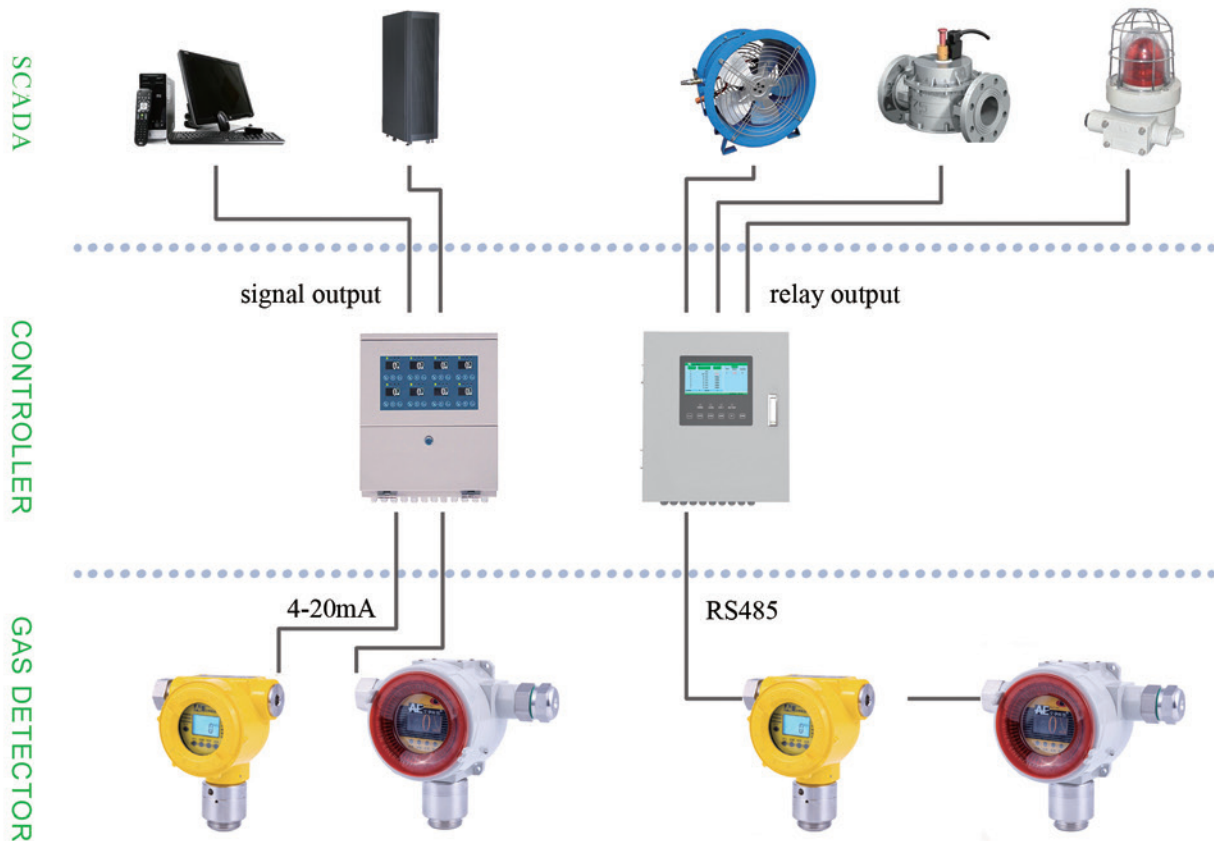
■ FUNCTION

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	0-100%LEL	Catalytic	1%LEL	●	●	-	●	●	●	●	-	-	-	-	-
	EX	0-100%LEL	Infrared	1%LEL	-	-	●	-	-	-	-	-	-	-	-	-
Oxygen	O$_2$	0-30%VOL	Electrochemical	0.1%VOL	-	-	-	-	-	-	-	●	●	●	●	●
Carbon monoxide	CO	0-1000μmol/mol	Electrochemical	1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Hydrogen sulphide	H$_2$S	0-100μmol/mol	Electrochemical	1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Chlorine	CL$_2$	0-10μmol/mol	Electrochemical	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Sulphur dioxide	SO$_2$	0-20μmol/mol	Electrochemical	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Ammonia	NH$_3$	0-100μmol/mol	Electrochemical	1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Nitric oxide	NO	0-250μmol/mol	Electrochemical	1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Nitrogen dioxide	NO$_2$	0-20μmol/mol	Electrochemical	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Hydrogen chloride	HCL	0-30μmol/mol	Electrochemical	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Ozone	O$_3$	0-1μmol/mol	Electrochemical	0.01μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Ethylene oxide	C$_2$H$_4$O	0-20μmol/mol	Electrochemical	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Formaldehyde	CH$_2$O	0-20μmol/mol	Electrochemical	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Methanol	CH$_3$OH	0-20μmol/mol	Electrochemical	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Phosphine	PH$_3$	0-5μmol/mol	Electrochemical	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Hydrogen	H$_2$	0-1000μmol/mol	Electrochemical	1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Fluorine	F$_2$	0-1μmol/mol	Electrochemical	0.01μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Hydrogen fluoride	HF	0-10μmol/mol	Electrochemical	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Hydrogen cyanide	HCN	0-50μmol/mol	Electrochemical	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Phosgene	COCL$_2$	0-1μmol/mol	Electrochemical	0.01μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Arsenic hydride	AsH$_3$	0-1/20μmol/mol	Electrochemical	0.01μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Silane	SiH$_4$	0-50μmol/mol	Electrochemical	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Acrylonitrile	C$_3$H$_3$N	0-20μmol/mol	Electrochemical	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Carbon disulfide	CS$_2$	0-20μmol/mol	Electrochemical	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Ethanol	C$_2$H$_5$OH	0-20μmol/mol	Electrochemical	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Sulfur hexafluoride	SF$_6$	0-1000μmol/mol	Infrared	1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Methane	CH$_4$	0-5%/100%VOL	Infrared	0.1%VOL	-	-	-	-	-	-	-	●	●	●	●	●
Carbon dioxide	CO$_2$	0-5%/100%VOL	Infrared	0.1%VOL	-	-	-	-	-	-	-	●	●	●	●	●
Toluene	C$_7$H$_8$	0-20μmol/mol	PID	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Xylene	C$_8$H$_{10}$	0-20μmol/mol	PID	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Benzene	C$_6$H6	0-20μmol/mol	PID	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Acetic acid	C$_2$H$_4$O$_2$	0-1000μmol/mol	PID	0.1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●
Volatile organic compounds	VOC	0-1000μmol/mol	PID	1μmol/mol	-	-	-	-	-	-	-	●	●	●	●	●

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

AIYI Technologies

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