



AG310 SERIES GAS DETECTOR

AG310 series including model GTQ-AF11X, GT-AF11X-R, AG310X. These gas detectors are suitable for detecting the combustible and toxic gases in hazardous areas. The product adopts the integrated design of sound and light alarm, which can effectively warn all kinds of gas leakage hazards; the smart sensor modular design supports hot plugging and easy maintenance; the product is equipped with an infrared remote control, which can realize completely no cover operation. IP66 protection can be applied to all kinds of bad occasions.

Features

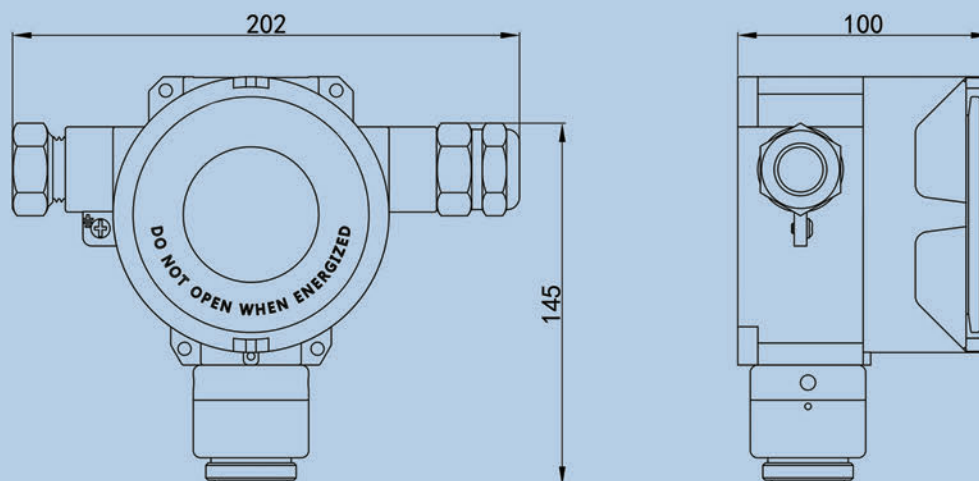
- integrated design with sound and light alarm.
- The patented sensor module integrates the sensor and calibration information into a replaceable module. Suitable to replace the sensor module without calibration and ready-to-use when connect new sensor module even it's a different gas sensor, much convenient.
- IP66 design with body material in stainless steel and aluminum alloy, suitable for harsh environments.
- High-brightness OLED display, capable to see readings in any angle.
- Built-in three relays(alarm-1, alarm-2, fault), multi-functional control is possible.
- Full English menu, remote control operation.
- Complete product certification (IECEX, ATEX, SIL2, CNEX, CCCF, etc.)

Specification

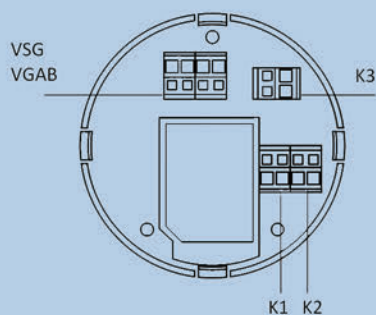
Description	Specifications	GTQ-AF110	GTQ-AF111	GTQ-AF112	GT-AF110-R	GT-AF111-R	GT-AF112-R	AG310	AG311	AG312
Gas Detected										
Ex	catalytic combustion	●	●	●	-	-	-	-	-	-
	infrared	-	-	-	●	●	●	-	-	-
toxic	ECD,IR,PID,semiconductor	-	-	-	-	-	-	●	●	●
Function										
measure range	see QUICK-SELECTION-TABLE	●	●	●	●	●	●	●	●	●
response time *	T90≤30S	●	●	●	●	●	●	-	-	-
	T90≤60/180S	-	-	-	-	-	-	●	●	●
accuracy *	≤±5%F.S / 1 %LEL	●	●	●	●	●	●	●	●	●
repeatability *	≤2%F.S	●	●	●	●	●	●	●	●	●
Electric										
power supply	18-28VDC(standard 24VDC)	●	●	●	●	●	●	●	●	●
power consumption	≤3.5W	●	●	●	●	●	●	-	-	-
	≤2W	-	-	-	-	-	-	●	●	●
signal output	4-20mA	●	-	●	●	-	●	●	-	●
	RS485	-	●	-	-	●	-	-	●	-
	HART	-	-	●	-	-	●	-	-	●
wiring	three-wire	●	-	●	●	-	●	●	-	●
	four-wire	-	●	-	-	●	-	-	●	-
suitable cable	RVVP3*1.5mm ²	●	-	●	●	-	●	●	-	●
	RVVP4*1.0mm ²	-	●	●	-	●	-	-	●	●
relay output	3 passive relays (250VAC/5A 30VDC/5A)	●	●	●	●	●	●	●	●	●
Display & Operation										
display	OLED display	●	●	●	●	●	●	●	●	●
indicator light	power,fault,alarm-1,alarm-2	●	●	●	●	●	●	●	●	●
operation method	remote control	●	●	●	●	●	●	●	●	●
Environment										
ingress protection	IP66	●	●	●	●	●	●	●	●	●
operating temp.	-40℃~66℃	●	●	●	●	●	●	-	-	-
	-20℃~66℃	-	-	-	-	-	-	●	●	●
operating humidity	5%~95%RH non-condensing	●	●	●	●	●	●	●	●	●
operating pressure	80-120kPa	●	●	●	●	●	●	●	●	●
Structure										
body material	ADC12 aluminum +316L S/S; complete S/S housing is optional	●	●	●	●	●	●	●	●	●
close nipple	NPT1/2	●	●	●	●	●	●	●	●	●
weight	about 2kg	●	●	●	●	●	●	●	●	●
dimensions	145*202*100mm(H*W*D)	●	●	●	●	●	●	●	●	●
Certificates										
IECEX	Ex db ib IIC T6 Gb Ex ib tb IIIC T80℃ Db	●	●	●	●	●	●	●	●	●
ATEX INMETRO	Ex db ib IIC T6 Gb Ex ib tb IIIC T80℃ Db EN 60079-29-1; EN 45544-1; EN 45544-2; EN 45544-3	●	●	●	●	●	●	●	●	●
SIL	SIL2	●	●	●	●	●	●	●	●	●
CPA	2015C563-32	●	●	●	●	●	●	●	●	●
CNEX	Ex db ib IIC T6 Gb	●	●	●	●	●	●	●	●	●
CCCF		●	●	-	-	-	●	-	-	-

Note:* refers to there's some difference vary from different gas, please contact the manufacturer for details.

Dimensions



Wiring



Terminals	Description
V	24V +
S	4-20mA + HART signal output
G	24V -
A B	RS485 signal output
K1	relay output for alarm-1
K2	relay output for alarm-2
K3	relay output for fault



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

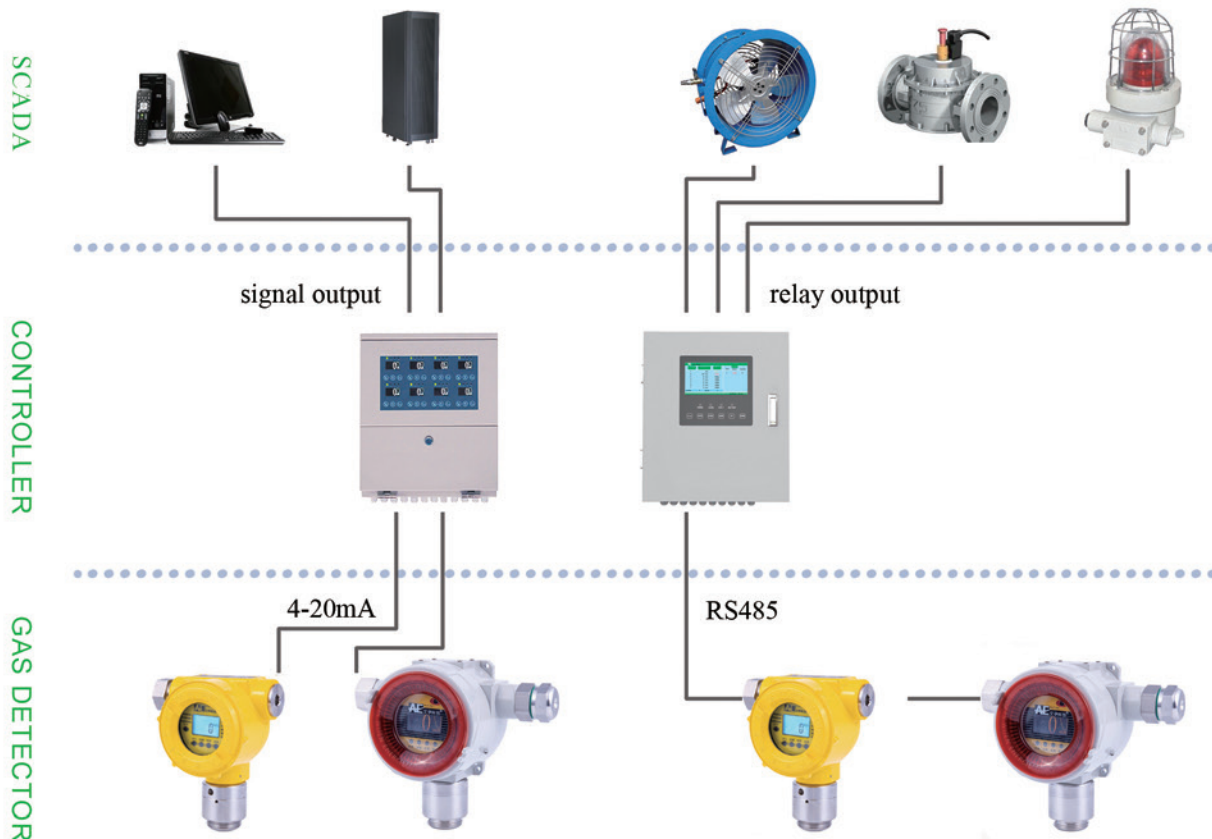


DIAGRAM of GAS DETECTION SYSTEM

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.



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