

AG200 SERIES GAS DETECTOR

AG200 gas detector is a classic product of AIYI Technologies, which is suitable for most areas where it is necessary to detect flammable gas, oxygen, and toxic gas. The product responds quickly with an advanced gas sensor; ingress protection to IP65.

Features

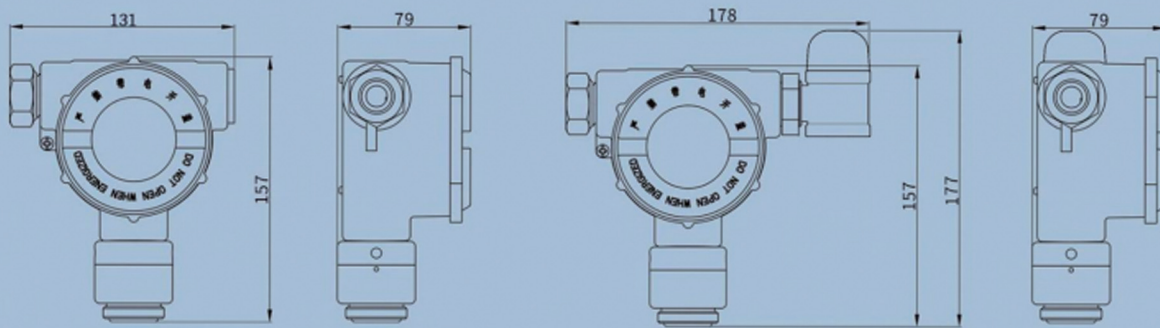
- Advanced gas sensors, fast response with a long lifespan, safer and more reliable.
- IP65 design with body material in stainless steel and aluminum alloy, suitable for harsh environments.
- 4-20mA/Rs485 signal output that can upload the signal to the control panel.
- Built-in relay and compatible with sound light alarm
- Complete product certification (ATEX, SIL, CCCF, etc.)

Specification

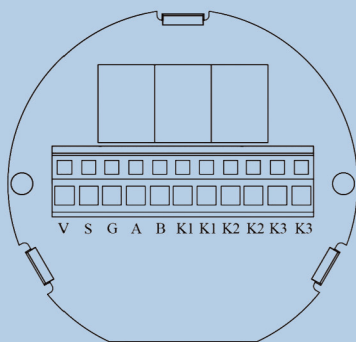
Description	Specifications	AG200
Gas Detected		
toxic	electrochemical, Infrared, PID	●
Function		
measure range	see QUICK-SELECTION-TABLE	●
response time*	T90≤60S/180S	●
accuracy*	≤±5%F.S	●
repeatability*	≤2%F.S	●
Electric		
power supply	18-28VDC(standard 24VDC)	●
power consumption	≤2W	●
signal output	4-20mA	●
	RS485	-
wiring	three-wire	●
	four-wire	●
suitable cable	RVVP3*1.5mm ²	●
	RVVP4*1.0mm ²	●
relay output	3 passive relays (250VAC/5A 30VDC/5A)	●
Environment		
ingress protection	IP65	●
operating temp.	-20℃～60℃	●
operating humidity	10%～95%RH non-condensing	●
operating pressure	80-120kPa	●
Structure		
body material	Aluminum Alloy	●
close nipple	NPT1/2	●
weight	about 1.3kg	●
dimensions	157*131*79mm(H*W*D)	●
Certificates		
ATEX	Ex db IIC T6 Gb Ex tb IIIC T80 ℃ Db	●
SIL	SIL2	●
CPA	2009C170-32	●

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 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

QUICK SELECTION TABLE -- GAS DETECTED

Gas	Measure Range	Principle	Resolution	GTQ-AFI10	GTQ-AFI11	GTQ-AFI12	GT-AFI10-R	GT-AFI11-R	GT-AFI12-R	GTQ-Amr-A	GTQ-Amr-D	Amr-N	Amr-S	AG310	AG311	AG312	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	1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Chlorine	H ₂ S	Electrochemical	1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Sulphur dioxide	CL ₂	Electrochemical	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Ammonia	SO ₂	Electrochemical	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Nitric oxide	NH ₃	Electrochemical	1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Nitrogen dioxide	NO	Electrochemical	1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Hydrogen chloride	NO ₂	Electrochemical	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Ozone	HCL	Electrochemical	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Ethylene oxide	O ₃	Electrochemical	0.01ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Formaldehyde	C ₂ H ₄ O	Electrochemical	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Methanol	CH ₂ O	Electrochemical	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Phosphine	CH ₃ OH	Electrochemical	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Hydrogen	PH ₃	Electrochemical	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Fluorine	H ₂	Electrochemical	1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Hydrogen fluoride	F ₂	Electrochemical	0.01ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Hydrogen cyanide	HF	Electrochemical	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Phosgene	HCN	Electrochemical	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Arsenic hydride	COCL ₂	Electrochemical	0.01ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Silane	AsH ₃	Electrochemical	0.01ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Acrylonitrile	SiH ₄	Electrochemical	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Carbon disulfide	C ₃ H ₃ N	Electrochemical	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Ethanol	CS ₂	Electrochemical	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Sulfur hexafluoride	C ₂ H ₅ OH	Electrochemical	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Methane	SF ₆	Infrared	1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Carbon dioxide	CH ₄	Infrared	0.1%VOL	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Toluene	CO ₂	Infrared	0.1%VOL	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Xylene	C ₂ H ₈	PID	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Benzene	C ₈ H ₁₀	PID	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Acetic acid	C ₆ H ₆	PID	0.1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Volatile organic compounds	C ₂ H ₄ O ₂	PID	1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Sulfur hexafluoride	VOC	PID	0.1ppm 1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
1,3,3,3-Tetrafluoropropene	SF ₆	IR	1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Chlorodifluoromethane	R1234ze	IR	1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Difluoromethane	R22	IR	1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
R407a	R32	IR	1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
R410	R407a	IR	1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
1,1,1,2-Tetrafluoroethane	R410	IR	1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
	R134a	IR	1ppm	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
Please contact us for other refrigerant gases																			

Note: Any gas that not mentioned above, just contact AIYI Technologies for further information;