



AW-CGD2166EX

Using original imported sensors from Japan Standard three-wire, two-wire 4-20mA analog signal output; relay output, RS485 output (optional)

Unique infrared remote control function, non-contact operation and maintenance of the instrument

Compatible with various control alarms, PLC, DCS and other control systems, can realize remote monitoring,

Explosion-proof design, fast, reliable and stable; explosion-proof grade is Ex d II CT6 Full software automatic calibration function, the machine is equipped with a standard three buttons to achieve single-person single-point on-site maintenance

■ Features

Monitoring the concentration of combustible gas in the environment or pipeline

Full software automatic calibration function, zero point calibration function, make gas monitoring more accurate and reliable

With temperature compensation, it can perfectly realize the compensation of gas concentration under different temperature environments

The infrared remote control can realize alarm point setting, zero calibration, address modification and other functions without opening the cover remotely

It can output one or two switch signals, which can drive external devices such as exhaust fans or solenoid valves

Working voltage: 12-36V DC power supply

Shell material: die-cast aluminum

■ Application

Petrochemical, industrial production, smelting and forging, electric power, coal mine, tunnel engineering, environmental monitoring, sewage treatment

Biopharmaceuticals, household environmental protection, animal husbandry, greenhouse cultivation, warehousing logistics, brewing and fermentation, agricultural production

Fire fighting, gas, building construction, municipal enterprises, school laboratories, scientific research centers

Gas Detected	Combustible gas and toxic gas (see the gas type table for details)		
Detection principle	Catalytic combustion, electrochemistry, photoelectric ion PID, infrared (according to demand and detection gas)		
Sampling Method	Wall-mounted, pipeline, flow-through (related to monitoring environment)		
Measure Range	0-100LEL		
Resolution	0.01LEL、0.1LEL、1LEL		
Precision	2%FS		
Output signal	4-20MA、0-5V、RS485, RS232, Relay, wireless digital (optional)		
Response Time	≤10S	Recovery Time	≤10S
Repeatability	≤±1%	Linearity error	≤±1%
Zero shift	≤±1 (F.S/year)	Display	High brightness digital tube display
Connection mode	G1/2	Thread size	M20*1.5 thread
Temperature	-40℃~70℃	Humidity	0-95%RH
Explosion-Proof	Ex d II CT6	Degree of protection	IP65
Power	12-36VDC	Operating time	24 hours
Dimensions	180×150×90mm	Weight	≤1.6kg

gas time	measure range	optional range	Resolution	Response
EX	0-100%LEL	0-100%LEL	1%LEL/0.1%LEL	≤10S
O2	0-30%VOL	0-25%VOL	0.01%VOL/0.1%VOL	≤10S
CO	0-1000ppm	0-2000ppm	0.1ppm/1ppm	≤10S
H2S	0-100ppm	0-1000ppm	0.01ppm/0.1ppm	≤10S
CH4	0-100%lel	0-100%LEL	0.01%LEL	≤10S
C3H8	0-100%lel	0-100%LEL	0.01%LEL	≤10S
NH3	0-100ppm	0-200ppm	0.01ppm/0.1ppm	≤10S
CL2	0-10ppm	0-100ppm	0.01ppm/0.1ppm	≤10S
HCL	0-20ppm	0-100ppm	0.01ppm/0.1ppm	≤10S
H2	0-100ppm	0-40000ppm	0.1ppm/1ppm	≤10S
NO	0-100ppm	0-250ppm	0.01ppm/0.1ppm	≤10S
NO2	0-20ppm	0-100ppm	0.01ppm/0.1ppm	≤10S
NOX	0-100ppm	0-2000ppm	0.01ppm/1ppm	≤10S
CH2O	0-10ppm	0-100ppm	0.01ppm/0.1ppm	≤10S
VOC	0-100ppm	0-2000ppm	0.01ppm/1ppm	≤10S
CH3F	0-10ppm	0-100ppm	0.01ppm/0.1ppm	≤10S

HF	0-100ppm	0-1000ppm	0.01ppm/1ppm	≤10S
N2	0-100VOL	0-100VOL	0.1VOL	≤10S
O3	0-10ppm	0-1000ppm	0.01ppm/0.1ppm	≤10S
CO2	0-100ppm	0-500ppm	0.1ppm/1ppm	≤10S
SO2	0-20ppm	0-5000ppm	0.01ppm/1ppm	≤10S
C3H5ClO	0-100ppm	0-1000ppm	0.01ppm/1ppm	≤10S
C2H4O	0-100ppm	0-1000ppm	0.01ppm/1ppm	≤10S
CH2F2	0-10ppm	0-100ppm	0.01ppm/0.1ppm	≤10S
CF4	0-100ppm	0-100ppm	0.1ppm/1ppm	≤10S
CH4S	0-100ppm	0-100PPM	0.1PPM/1PPM	≤10S
PH3	0-10ppm	0-5000ppm	0.01ppm/1ppm	≤10S
AsH3	0-100ppm	0-100ppm	0.1PPM/1PPM	≤10S
KAu(CN)2	0-100ppm	0-100ppm	0.01ppm/1ppm	≤10S
TDI	0-100ppm	0-100ppm	0.01ppm/1ppm	≤10S
C4H8O2	0-100ppm	0-100ppm	0.01ppm/1ppm	≤10S
C4-C12	0-100ppb	0-100ppb	0.01ppb/1ppb	≤10S
Br2	0-100ppm	0-100ppm	0.1PPM/1PPM	≤10S
HCN	0-10ppm	0-100ppm	0.01ppm	≤10S
N2	0-100%VOL	0-90%VOL	0.01%VOL	≤10S
HF	0-10ppm	0-50ppm	0.01ppm	≤10S

Sound and light alarm lamp parameters:

Working temperature: -40 sound and light warning light

Working temperature: -40°C-70°C

- ◆Relative humidity: <95%
- ◆Atmospheric pressure: 80~106Kpa
- ◆Environmental noise: <75dB
- ◆Suitable for occasions with explosive mixtures but no corrosive gases that damage the insulation.
- ◆The device is allowed to withstand vibrations with acceleration of 50m/s² and shocks with acceleration of 500m/s² during use, installation, storage and transportation.
- ◆Working voltage: DC24V±20%
- ◆Working current: <100mA
- ◆Optical signal: red 2400±200mcd
- ◆Sound signal: ≥120dB
- ◆Shell material: stainless steel
- ◆Threaded interface: G1/2; M20*1.5; G3/4
- ◆Protection level: IP65
- ◆Explosion-proof grade: Exd II CT6
- ◆Dimensions: 98mm×38mm×60mm
- ◆Weight: <1Kg