

Gasboard-3500

NDIR Gas Analyzer (Ex-Proof)



Ex-Proof design/Modular Sensor Design
 International advanced NDIR gas detection technology, paramagnetic and long lifetime electrochemical sensor detection technology, to measure the concentration of CO, CO₂, CH₄, C₃H₈, O₂, H₂ and so on in real time.

International Patent (PCT/CN2012/080795)
China Authorization (201110435862.3)
US Authorization (US9857323B2)

Applications

- › Fuel gas quality monitoring for gas turbines, internal combustion engines, fuel cell power plants, etc.
- › Calorific value measurement for fiscal metering of pipeline gases.
- › Wobbe Index metering for combustion control applications
- › Natural gas, Biomethane, coal bed methane, synthesis natural gas, Acid/sour well gas composition monitoring and quality checking. Fast-response alternative to traditional calorimeter and/or gas chromatograph type instruments.
- › Monitoring of CO content in coal mill and coal powder bin.



Design Features

› Explosion –proof design.

Satisfy gas monitoring demand in hazardous zone with flammable & explosive gases. **High**

› accuracy measurement.

Simultaneously measure the volume concentration of multiple gases without cross –interference between each other.

› High integration.

Equipped pre –treatment devices to ensure stable performance and continuous automatically measurement.

› Convenience data management.

Measurement results can be transmitted to control system through various output interfaces. **Long**

› service life and stable performance.

All parts in contact with the sample gas are made of special stainless steel, PTFE and other materials with good heat and corrosion resistance.

Items	Specifications
Gas sensor	CO、CO ₂ 、CH ₄ 、C ₃ H ₈ 、O ₂ 、H ₂
Measurement range	CO: 0-100% (NDIR) CO ₂ : 0-100% (NDIR)、CH ₄ : 0~100% (NDIR) C _n H _m : 0-20% (NDIR) 、O ₂ : 0-25% (ECD/paramagnetic)、H ₂ : 0-100% (TCD) **Measurement range can be customized.
Calculation	HHV / LHV switchable (WI, Density and other indexes optional on request)
Resolution	0.01%/1ppm
Precision	±2%FS (NDIR), ±3%FS (ECD /TCD), ±2%FS(paramagnetic)
Repeatability	≤1%
Inlet flow	0.7~1.2 L/min
Inlet pressure	2KPa~50KPa
Sampling gas condition	No dust, no vapor, no tar
Response time(T90)	<10s (NDIR), <30s (ECD, TCD)
Warm up	800seconds
Digital output	RS-232/RS-485
Analogue output	4~20 mA
Power supply	110V/220V±44V AC 50Hz±1Hz
Dimension	400mm×400mm×250mm
Weight	Approx. 55Kgs
Ex-Proof Rating	ExdIICT6
IP Grade	IP65