Gasboard-3500UV
Online UV-DOAS Biogas Monitoring System

Anaerobic Digester
H_2S scrubber
Biogas Engine/CHP
Upgraded Bio-methane Gas
Landfill Site
Waste Water Treatment
Biogas Flare

Introduction

- Gasboard-3500UV is the new generation biogas monitoring system that primarily designed based on UV-DOAS technology to measure H_2S concentration precisely before and after H_2S scrubber, and extended with modular sensor of CH_4(NDIR), CO_2(NDIR) and O_2(ECD) to realize online continuously monitoring of biogas quality without purging cycle required.
- The 2 sampling channels design before and after scrubber enable it to provide an ideal solution to guarantee the H_2S scrubber efficiency, protect downstream expensive equipment from the damage of overload H_2S, minimized the investment for users and optimized the biogas monitoring process.

Features

- Unique technology of UV-DOAS, NDIR and ECD combination.
- High & low range H_2S measurement, switchable for points before and after scrubber.
- UV-DOAS H_2S sensor with higher precision and longer lifespan.
- Continuous monitoring on CH_4, CO_2, H_2S, O_2 for optimized process control.
- Modular sensor design enables easy calibration and maintenance.
- Flexible gas conditioning configuration customizable to site requirements.
- Stainless steel protective cabinet to avoid corrosion in long term operation.
- Optional Ex-proof design applicable to safe or hazardous area.

CUBIC-RUIYI

Specifications

Parameters					
Gas	**Technology**	**Measurement Range**	**Resolution**	**Precision**	**Repeatability**
H_2S	UV-DOAS	0~500~5000ppm	1ppm	±2%FS	⩽1%
CH_4	NDIR	0~100%	0.01%	±2%FS	⩽1%
CO_2	NDIR	0~50%	0.01%	±2%FS	⩽1%
O_2	ECD	0~25%	0.01%	±2%FS	⩽1%
Response Time		T90＜60s			
Gas Flow		(0.7~1.2)L/min for measurement			
Gas Pressure		(2~50)kPa for measurement			
Power Supply		AC220V, 50Hz			
Sample Gas Preparation					
Water Remover		Gravity dewatering tank with manual draining valve (Default)			
Filter		Gas/water separator with auto-draining valve (Default)			
Sampling Channels		1~4 sampling channels customizable (Optional)			
Heated Line		Heated line for ambient temperature under 0°C (Optional)			
Sampling Pump		Sampling pump for low pressure condition (Optional)			
Gas Cooler		Vortex gas cooler for high humidity sample gas (Optional)			
Mechanical Specifications					
Enclosure		Stainless Steel floor standing cabinet			
Dimensions(mm)		H1600 x W700 x D600			
Ex-Proof Grade		ExdIICT6(Analyzer)			
IP Grade		Ip65			
Weight		140kg			
Communications					
Analog		4~20mA output channel for each gas reading			
Digital		RS232/485 output with Modbus protocol			
Alarms		High & Low alarm relay output for each gas reading			
Environment Conditions					
Operating Temperature(°C)		-15°C to 45°C			
Operating Humidity		0~95%RH non-condensing			
Environment Pressure		80~120kPa			

Add: Fenghuang No.3 Road, Fenghuang Industrial Park,Eastlake Hi-tech Development Zone, Wuhan, 430205, China
Tel: +86-27-81628831
Fax: +86-27-87401159
Email: info@gasanalyzer.com.cn
Web: www.gas-analyzers.com www.gasanalyzer.com.cn