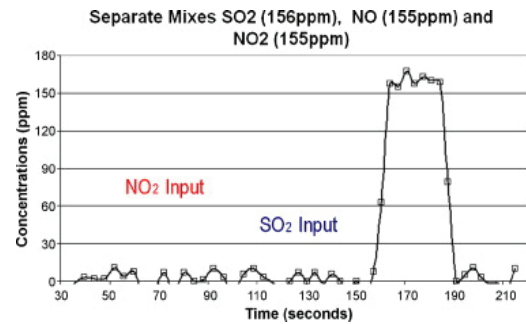# UV DOAS Gas Analyzer

MGL

(Ultra Violet Differential Optical Absorption Spectrometer)

MGL Series - UV DOAS is a flue online monitoring gas analyzer. This analyzer is based on UV DOAS principle. It can measure SO_2, NO, NO_2, O_2, NH_3, CO, CO_2, Cl_2, O_3, H_2S, HCl, CH_2I. With high accuracy and reliability, low operating costs, fast response time, wide measurement range and application fields.

This principle platform consists of light sources, gas chamber, optical and spectroscopic and other components. Ultraviolet light is sent by the light source through the optical window into gas chamber and absorbed by the sample gas through the gas chamber. The light carrying sample absorption information gathers through lens coupled into fiber and then transmits through the optical fiber into spectrometer. After the light splitting and photo-voltaic conversion, absorption spectrum is obtained and analyzed to calculate the concentration of the related components in gas.

Separate Mixes SO2 (156ppm), NO (155ppm) and NO2 (155ppm)

Features

- 19 inch 4U panel and wall mount panel
- Principle : UV DOAS
- The minimum detection limit of SO_2, NO, NO_2 can be 1mg/m3
- Ultraviolet has no moisture absorption, undisturbed by moisture and dust
- No cross interference between the gas being measured
- Low detection limit
- NO and NO_2 can measure at the same time, dispense with converter
- No optical moving parts and no vibration influence
- Strong gas cell, low cost
- Spectrum automatic adjustment technology
- Parameters: SO_2, NO, NO_2, O_2, NH_3, CO, CO_2, Cl_2, O_3, H_2S, HCl, CH_2I.

Specification

- Measuring Principle : UV DOAS
- Measuring Range : 0~300~3000ppm (SO_2, NO_x)
- Linearity Error : ≤ ±1% F.S
- Repeatibility : ≤ ±0.5% F.S
- Response Time : <25s
- Warm Up Time : None
- Output : 4-20mA
- Power : 230VAC, 50/60Hz
- Working Temperature : -10°C ~ +40°C
- Working Humidity : 0~95% RH
- Communication : RS485 Modbus RTU

Application

- Garbage Power Plant
- Desulfurization
- Coke Oven
- Ceramic Factory
- Coal Fired Power Plant