

1004/04/SE2/1820
SPECIFICATION SHEET
GAS ANALYZER FOR STACK GAS

This analyzer consists of an infrared gas analyzer, an O₂ Sensor and a gas sampling device. It is used for simultaneous and continuous measurement of the NO_x, SO₂, CO, CO₂ and O₂ components in the flue gas of various boilers, garbage incinerator, etc.

For CO and O₂ measurement specifications, the function for coping with the regulation on dioxin emission should be incorporated.

- i. Gas concentrations of 5 components is measurable simultaneously and continuously
- ii. NO_x, SO₂, CO and CO₂ gas concentration measurements are integrated by infrared method, to which a zirconia 'OR' magnetic type O₂ sensor is added for O₂ measurement. Therefore, the gas concentrations of 5 components are simultaneously and continuously measurable.
- iii. The use of highly sensitive and reliable mass flow detector allows the range ratio of up to 1:25 with the standard 2 range.
- iv. Maintenance can be performed from the front side, thus saving the installation space.
- v. Provided with abundant functions including O₂ correction output, average value output, automatic calibration, CO peak count alarm, automatic range changeover, and alarms.

Measuring System:

NO_x, SO₂, CO and CO₂ (type: infrared)

O₂: Zirconia 'OR' magnetic type.

Measurement Component and min./max. Measurement range:

NO_x: 0 to 5000ppm

SO₂: 0 to 5000ppm

CO: 0 to 5000ppm

CO₂: 0 to 20%

O₂: 0 to 25%

Number of Measurement ranges:

2 maximum range ratios: 1:25

Warm-up time:

Within 4 hours after power-on

Analog output signals:

Simultaneous output of signals of 4 to 20 mA D.C

Five instantaneous values outputs (NO_x, SO₂, CO₂, CO and O₂)

Indication:

LCD with back light for indicating:

Values of five components (NO_x, SO₂, CO, CO₂ and O₂)

Recorder (option):

Paperless recorder mounted

Gas extractor:

Electrical heating type (filter built in)

Wire mesh filter: 40 μm mesh of SS 316 stainless steel

Flange: ASME standard 150 lb rating

Power supply voltage: 24V DC is preferable.

Sampling pipe material: SS 316, L: 600 mm

Sample inlet tube:

Ø10 / Ø8 (mm) Teflon tube heating tube (max. 30 m)

Rated operating condition:

Temperature: Min: 25 °C; Max: 400 °C

Power supply voltage: 24V DC two wire powered loop is preferable.

Model # ZSU-6 OR Equivalent
(Make: Fuji Electric).