# Sulfur Dioxide Analyzer

**PORTABLE**

# MEZUS 100

## | SO$_2$ Analyzer

MEZUS 100 SO$_2$ Analyzer is the analyzer that measures minimum amount of SO$_2$ in air correctly using the UV fluorescence method. The UV lamp with less change of sensitivity used for MEZUS 100 was applied and the self manufactured kicker to remove the obstacle components such as HC is installed.

To prevent the adhesion of specimen, the response chamber and specimen tube of special coating material was used to improve minimum detection and precision.

All gas analyzers of MEZUS series were equipped with screen interface design using TFT - LCD & Touch screen so that user can operate the analyzer and maximize the visual image, and MCU applied to the analyzer is ARM cortex 32bit processor and operates based on Linux Kernel 3.14 which maximizes the system stability due to mutiprocessing.

In addition, the analyzer is equipped with automatic zero correction system (Auto Zero) for smooth measurement and various interfaces (Ethernet, USB, Analog out) so that user can use it more conveniently and usefully.
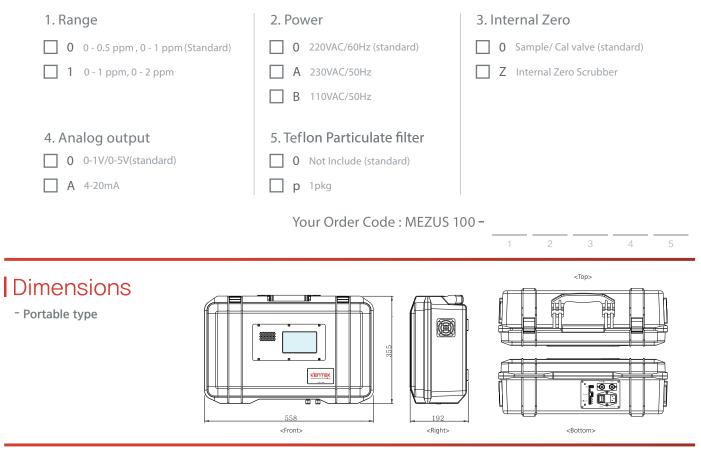
## | Features

- Ranges 0-0.1 / 0.5 / 1 ppm, user selectable.

- 5inch TFT LCD & touch screen interface.

- Ethernet & USB ports.

- USB interface utilizes for System Program Update.

- Temperature & pressure compensation

- Internal zero(optional)

- Stored data can be retrieved USB Interface and TCP/IP network

- In built Data Logger Utilizes NAND-Flash to Store up to 1year (5min averaged data)

## Specifications

| | |
|---|---|
| Measuring items | Sulfur Dioxide($SO_2$) in ambient air |
| Measuring method | Ultraviolet fluorescent method (UVF) |
| Ranges | 0-0.1 / 0-0.5 / 0-1ppm (selectable) |
| Lower Detectable Limit | Less than 0.5ppb |
| Repeatability | within ±1% of span gas concentration |
| Zero drift | Less than 2ppb |
| Span drift | within ±1%/full scale (1 day) |
| Response time(95%) | Less than 120 seconds (T95) |
| Linearity | within ±1%/full scale |
| Precision | within 1% of reading or 1ppb |
| Ambient temperature | 5 - 40°C |
| Analog output | 0-1V / 0-5V or 4-20mA (option) |
| Sample flow rate | Stabilized flow control by 700cc/min Critical Orifice |
| Particulate filter | 47mm Teflon filter |
| Display | 5 inch Graphic LCD |
| Comport | Ethernet, USB 2.0 |
| Internal data memory | Measuring data, Operation history, Messages, Alert (store up to 1year) |
| Power requirement | 220VAC/60Hz or 230VAC/50Hz |

## Ordering Information

**1. Range**

☐ 0   0 - 0.5 ppm , 0 - 1 ppm (Standard)

☐ 1   0 - 1 ppm, 0 - 2 ppm

**2. Power**

☐ 0   220VAC/60Hz (standard)

☐ A   230VAC/50Hz

☐ B   110VAC/50Hz

**3. Internal Zero**

☐ 0   Sample/ Cal valve (standard)

☐ Z   Internal Zero Scrubber

**4. Analog output**

☐ 0   0-1V/0-5V(standard)

☐ A   4-20mA

**5. Teflon Particulate filter**

☐ 0   Not Include (standard)

☐ p   1pkg

Your Order Code : MEZUS 100 –

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|

## Dimensions

– **Portable type**



355.5

558    192

&lt;Front&gt;    &lt;Right&gt;    &lt;Top&gt;    &lt;Bottom&gt;

CE   ISO 9001 ISO 14001   JAS-ANZ