

# ULTRASONIC GAS ANALYZER US-II E



## FEATURES

- *No consumables and long-lasting*
- *Calibration and maintenance are unnecessary for a long time*
- *Warm-up time is short and power saving*
- *Analog output only*
- *No reference gas*

## EXAMPLE

- *Gas mixer*
- *Charging and Testing*
- *Gas recovery unit*
- *Gas purifier*
- *Shielding gas*

*etc.*

## ULTRASONIC GAS ANALYZER US-II E

US-II E is gas analyzer with ultrasonic sensor for detecting.

This gas analyzer outputs analog voltage by our original calculation after measuring speed of sound and temperature of two gas mixture.

### SPECIFICATIONS

INSTALLATION	Fixed
WARM-UP TIME	About 10sec.
SAMPLE TEMP.	Normal temperature (50°Cmax)
SAMPLE PRESS.	atmosphere ~ +20kPa
FLOW RATE	0.5~2.0L/min
POWER SUPPLY	Less than $\pm 0.3V$ of DC +5.0V ( $\pm 1.0V$ of DC +12.0V)
CONSUMPTION	0.6W max. (DC+12.0V:0.9W max.)
AMBIENT TEMP.	5~45°C/90%RH or less
PIPING	1/4" Swagelok or 3/8" Swagelok
ANALOG OUTPUT	DC0-1V
LINEALITY	Less than $\pm 1\%$ of full scale
REPEATABILITY	Less than $\pm 1\%$ of full scale
RESPONSE TIME	90% reading is within 10sec.
MASS	Approx. 1kg
EXTERNAL-DIMENSIONS	W165×D100×H135.2

### PERFORMANCE

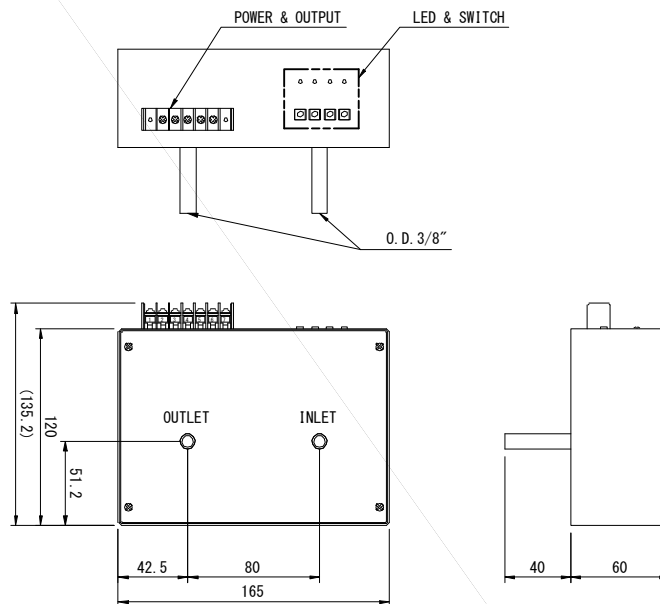
	MEASUREMENT RANGE	MEASURABLE-MINIMUM DIGIT
H <sub>2</sub> /N <sub>2</sub>	0~ 50%	0.04 %
He/N <sub>2</sub>	0~ 50%	0.04 %
He/Air	0~ 50%	0.04 %
O <sub>2</sub> /N <sub>2</sub>	0~100%	0.2 %
Xe/Ar	0~100%	0.02 %
Kr/N <sub>2</sub>	0~100%	0.02 %
CF <sub>4</sub> /N <sub>2</sub>	0~100%	0.02 %
Xe/N <sub>2</sub>	0~100%	0.01 %
SF <sub>6</sub> /N <sub>2</sub>	0~100%	0.01 %
CO <sub>2</sub> /Ar	0~ 50%	0.1 %
Please contact us for other gas composition		

※As is often the case with changing this specification for improvement without permission

※It is theoretically possible to analyze various two gas combination

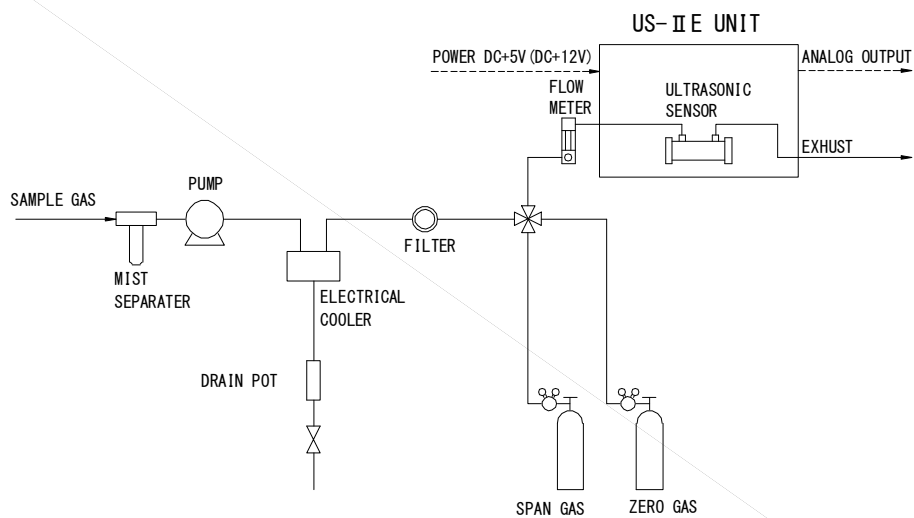
## DIMENSION & FLOW DIAGRAM (EXAMPLE)

### DIMENSION



### EXAMPLE OF FLOW

<EXAMPLE OF MEASURING INDUSTRIAL FUNACES>



※If sample gas is DRY, it is not necessary to prepare mist separator and electrical cooler.

## REFERENCE

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