

ULTRASONIC GAS ANALYZER US-II T-SH



FEATURES

- No consumables and long-lasting
- Color LCD monitor with touch panel
- Two choices of analog output
(DC 0-10V ⇔ DC 0-1V)
- Warm-up time is short
- Multiple range for various kinds of gas
- Free choice of output scaling
- Wide power supply within AC85~260V
- Free choice of sampling period
- Both Portable and Panel mounting
- Measurement of high concentration of H₂ and He possible
- No reference gas
- Continuous measurement possible

EXAMPLE

- Measurement of over 50% H₂ and He

ULTRASONIC GAS ANALYZER US-II T-S (R)

US-II T-SH is gas analyzer with high voltage ultrasonic sensor for detecting. This gas analyzer outputs and indicates gas concentration by our original calculation after measuring speed of sound and temperature of two gas mixture. Only this model is possible to measure H₂ and He gas from 0 to 100%.

SPECIFICATIONS

INSTALLATION	Portable or Panel mount
WARM-UP TIME	About 100sec.
SAMPLE TEMP.	Normal temperature (50°Cmax)
SAMPLE PRESS.	atmosphere ~ +20kPa
FLOW RATE	0.5~2.0L/min
POWER SUPPLY	A. C. 85~264V 50/60Hz
CONSUMPTION	50VA max.
AMBIENT TEMP.	5~45°C※1 / 90%RH or less
PIPING	IN OUT : Rc1/4
ANALOG OUTPUT	DC4-20mA, 0-10V or 0-1V
LINEALITY	Less than ±1% of full scale
REPEATABILITY	Less than ±1% of full scale
RESPONSE TIME	90% reading is within 10sec.
MASS	Approx. 6.5kg
EXTERNAL-DIMENSIONS	W220 × D268 × H150 (panel mount) W220 × D268 × H200 (portable)

PERFORMANCE

	MEASUREMENT RANGE	MEASURABLE-MINIMUM DIGIT
H ₂ /N ₂	0 ~ 100%	0.04%
He/N ₂	0 ~ 100%	0.04%
He/Air	0 ~ 100%	0.04%

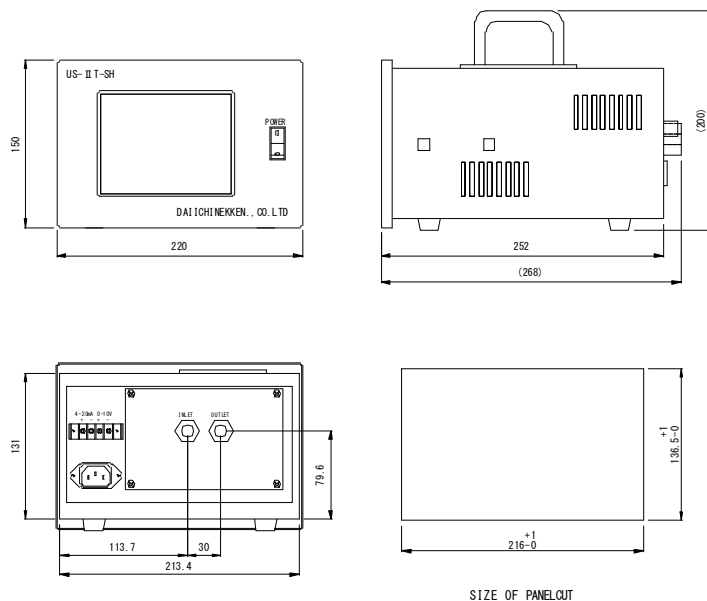
Please contact us for other gas composition

※1 The gas analyzer for H₂ is 「5~30°C」

※It is theoretically possible to analyze various two gas combination

DIMENSION & FLOW DIAGRAM (EXAMPLE)

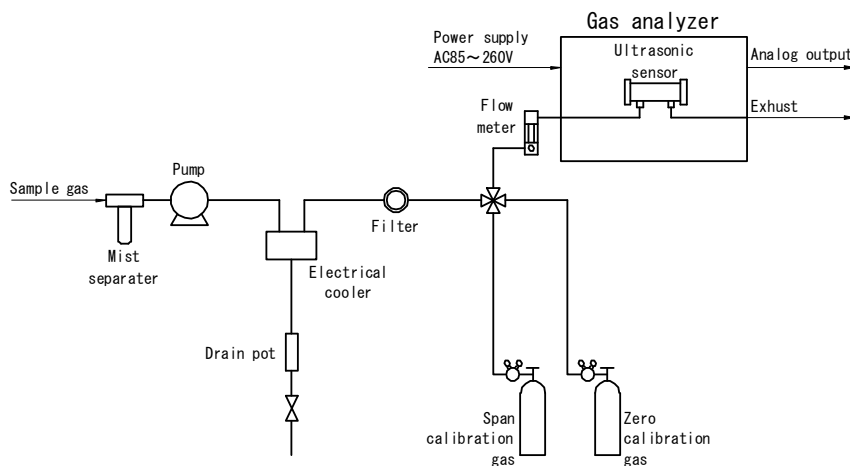
DIMENSION



- ※ The gas analyzer for H₂ has a fan on the back to diffuse the gas around the detection unit.
- ※ If it is used for Panel mounting, detach their rubber feet.

EXAMPLE OF FLOW

<EXAMPLE OF MEASUREMENT>



- ※If sample gas is dry, it is not necessary to prepare mist separator and electrical cooler.
- ※If impurities are mixed to the sample gas, please set the filter before INLET.

REFERENCE

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