

ULTRASONIC GAS ANALYZER with FLOW METER USF series



[Switch-change type]

USF-S

※a board for calibration is optional



[Bar-meter type]

USF-B

特長

- [USF-S] Change indication by a switch
Gas concentration \Leftrightarrow flow rate
- [USF-B] Bar meter for flow rate
analog output for gas concentration
- 0-1VDC for concentration and flow rate
- No consumables and long-lasting
- Calibration and maintenance are unnecessary for a long time
- Power saving (run with a battery)
- Compact, Light, Easy installation
- No reference gas
- Continuous measurement possible

EXAMPLE

- O_2 PSA
- Shielding gas
- Charging and Testing
- Gas mixer
- etc.

ULTRASONIC GAS ANALYZER with FLOW METER USF series

USF series is gas analyzer includes flow meter function with ultrasonic sensor for detecting.
USF series indicates gas concentration and flow rate by our original calculation
after measuring speed of sound and temperature of two gas mixture.

COMMON SPECIFICATIONS

SAMPLE TEMP.	Normal temperature (50°Cmax)
SAMPLE PRESS.	Atmospheric~+20kPa
FLOW RATE	0.3 ~ 10.0L/min
POWER SUPPLY	Less than $\pm 0.3V$ of DC +5.0V (optional: USB Type-A cable)
CONSUMPTION	Approx. 0.8W
AMBIENT TEMP	5 ~ 45°C / 90%RH or less
PIPNG	Rc1/8
MASS	Approx. 0.5kg
EXTERNAL-DIMENSIONS	108 × 80 × 35 (mm)

SPECIFICATIONS as GAS ANALYZER

WARM-UP TIME	Approx. 10 minutes
ANALOG OUTPUT	DC 0-1V
LINEARITY	Less than $\pm 1\%$
REPEATABILITY	Less than $\pm 1\%$
RESPONSE TIME	90% reading is within 10 seconds

SPECIFICATIONS as FLOW METER

WARM-UP TIME	Approx. 6 seconds
ANALOG OUTPUT	DC 0-1V (USF-S) DC 0-2.5V (USF-B)
MINIMUM DIGIT	0.1L/min
REPEATABILITY	$\pm 0.3L/min$
RESPONSE TIME	Approx. 3 seconds

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

※Please contact us in case of out of specification ※It is theoretically possible to analyze various two gas

EXAMPLE & DIMENSIONS

EXAMPLE

① AS a portable analyzer



Turn on 10 minutes before measurement
by a mobile battery.

※A battery is not included.

② installation in a panel

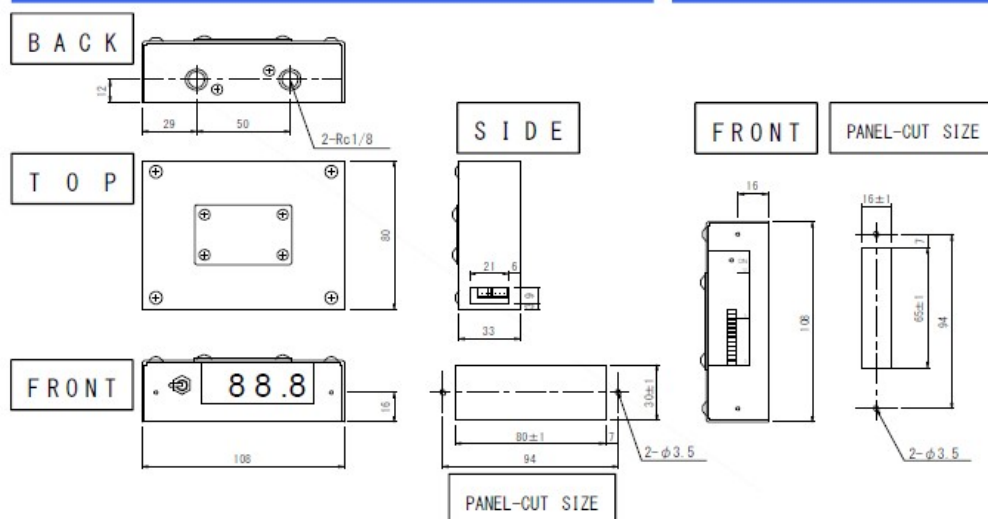


A bar-meter indicates flow rate.
Gas concentration is outputted to a meter.
※A right meter is optional.

DIMENSIONS

<switch-change type> USF-S

<Bar-meter type> USF-B



REFERENCE

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