

Ultrasonic Gas Flow Sensor

- Highly accurate, gas flow measurement device that can be used with any gas (ex: Air, Natural Gas etc..)
- Gas concentration is calculated based on average molecular weight and concentration of known gases referenced to speed of sound
- High-sensitive sensor with an onboard IC
- Low power: can be driven with 3V supply - Battery operable.



■ General Specifications

	GB-L1CM1
Applied Gas	O ₂ , Air, Natural Gas, CO ₂ , Helium and H ₂ .
Flow Rate Range	0.00L/min~25L/min
Measurement Accuracy	± 3.0% @Air (Under development)
Absolute Maximum Pressure	250kPa
Operating Temperature	-10~40°C
Storage Temperature	-30~70°C
Operating Humidity	0~95%
Measurement Resolution	0.001L/min
Pressure Loss	Equivalent to "0" (Straight Pipe)
Operating Voltage	5.0V (MAX 5.5V) External Power supply、10mA
Material	PPS
Connection to the Pipe	Inner diameter 13mm
Output Data	Flow Rate, propagation time, temperature
Communication Interface	UART 5pin(Vcc、GND、RX、TX、RESET)
Protective Structure	Under Consideration
Explosion-Proof	Under Consideration
Output Frequency	125ms、2sec
Size	W78mm × H32.7mm × D47mm
Weight	72g

Products and product specifications shown are subject to change without notice.

Please contact your local Panasonic Technical Representative for the most up to date information.

2019 PIDSA/SBDD

■ Dimensions



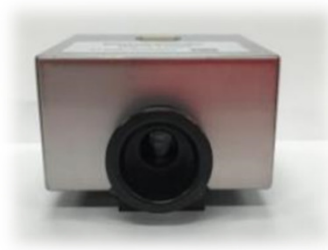
Top View



Inside View



Side View



Front/Back View

■ Detailed Specification

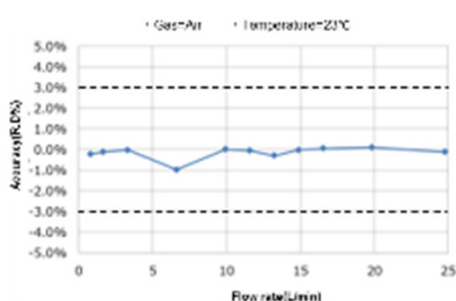
■ Engineering Data

■ Interface

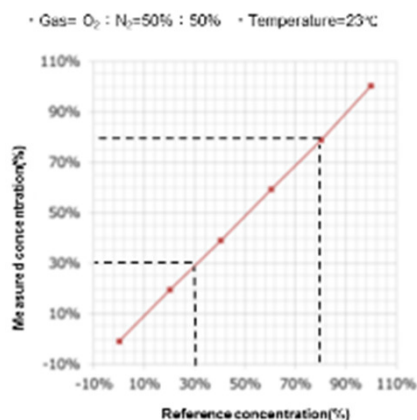
Communication Interface : UART

Pin No.	1 : VCC
	2 : RX
	3 : RESET
	4 : TX
	5 : GND
Connector	K7710AT-0205-G (Nippon Tanshi Co.,Ltd)
housing	K7720-9205
Receptacle	172791-M52 (Nippon Tanshi Co.,Ltd)

■ Flow measurement



■ Concentration measurement



■ Dimensions

