
	Product Specifications		Ver. 3	2/3
	Ultrasonic Flow Meter for Fuel Gas (External Power Supply 100 VAC Type)	Model	UX [Nominal diameter] / OAC / [Flow direction]	

Alarm output	<p>Open drain output 1 channel Accumulated value upper limit alarm or Flow-rate upper and lower limit alarm (Either one is selected by button operation)</p> <p>Accumulated value upper limit alarm When the accumulated flow volume becomes higher than the set accumulated flow volume upper limit value, an alarm signal is output. (The accumulated flow volume upper limit value can be set by communication.) *The 1 h measurement is started when the power supply is turned on.</p> <p>Flow-rate upper and lower limit alarm output When the instantaneous flow-rate becomes higher or lower than the set flow-rate, an alarm signal is output. (The alarm output upper and lower limit flow volume and alarm judgment value hysteresis width can be set by button operation.)</p>
Current output	<p>Output method : Discharge method Output accuracy : ± 0.1 mA for display value Load resistance : 400 Ω or less</p> <p>When instantaneous flow-rate is selected Zero output current : 4 mA (Reverse flow to low flow cutoff) Output current upper limit : 22 mA (Clip at 22 mA) Full scale flow-rate setting : 6 m³/h (Settable)</p> <p>When temperature is selected Output method : 4 mA: -10°C, 20 mA: +60°C Output current lower limit : 2 mA (clip at 2 mA) Output current upper limit : 22 mA (clip at 22 mA)</p>
Communication	<p>Communication method : Half duplex communication method (RS485 communication) Communication speed : 4800 bps, 9600 bps (Allowable range: $\pm 1.0\%$) Synchronization method: Asynchronous Bit configuration : 8 bits, no parity, stop bit length 1 bit Bit transmission order : Order from b1 to b7 (Low order prioritized sending) Error control : CRC</p> <p>* Register and download the detailed communication specifications from the following URL. http://www.aichitokei.co.jp/products/14_s_sonic/ux/</p>
Measurable fluid	City gas (13A), butane (Butane 70%, propane 30%), propane (Propane 98%, butane 2%),nitroge
Working fluid temperature	-10 to +60°C
Working pressure	0 to 100 kPa (Gauge pressure)
Working ambient temperature	-10 to +60°C 90%RH or less (There must be no condensation)
Storage ambient temperature	-20 to +70°C 90%RH or less (There must be no condensation)
Power supply	100 VAC (85 to 115 VAC, 50/60 Hz) Power consumption: 10 W or less
Flow direction	The right to left or left to right to the display portion can be selected. It must be determined at the time of order placement and not able to be changed by a customer. (The direction indicated by the arrow is the forward flow.)
Installation position	Horizontal or vertical (Cannot be installed with the position that the display portion faces downward or the cable introduction portion faces upward)
Pressure drop	200 Pa or less (City gas 13A, standard atmospheric pressure + 2.5 kPa, at maximum flow-rate)
Protection structure	IP 64 (JIS C0920: dust-proof, splash-proof type) which can be installed outdoors

 Reliability Creativity Service	Product Specifications		Ver. 3	3/3
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Mass 1.7 kg

Material

- Measurement portion Engineering plastic (Such as PPS), aluminum alloy
- Outer casing Aluminum alloy
- Display portion casing Aluminum alloy

*○ symbol indicates the gas contacting parts.

Standard working period 10 years (At ambient temperature of 20°C and ambient humidity of 65%RH)
 * 10 years is not the warranty period.

2. Precautions in handling

2-1. Installation environment

- (1) Although the high weather-proof electronic display is adopted, in case of installation at a place subjected to direct sunlight, provide a sunshade.
- (2) Do not install the flow meter at a place with much electromagnetic noise, in corrosive atmosphere, or with high humidity liable to cause dew condensation.
- (3) This product is designed for outdoor installation, but avoid areas where there is a risk of water submergence and water always splashes.
- (4) The meters do not conform to ATEX (explosion-proof) directive (2014/34/EU).

2-2. Piping conditions

- (1) In case large amount of dust, etc., are contained in the fluid, install the flow meter by vertical piping. Even though the meter is installed indoor, it cannot be installed with the position that the display portion faces downward or the cable introduction portion faces upward.