

 Reliability Creativity Service	Product Specifications		Ver. 3	2/2
	Ultrasonic Flow Meter for Fuel Gas (Internal Battery Type)	Model	UX [Nominal diameter] / 0BT / [Flow direction]	

Alarm output	<p>Open drain output 1 channel Battery voltage decrease alarm or flow-rate upper and lower limit alarm (Either one is selected by button operation)</p> <p>Battery voltage decrease alarm When six years have passed since a battery is installed, an alarm signal is output as a battery replacement period.</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>
Measurable fluid	City gas (13A), butane (butane 70%, propane 30%), Propane (propane 98%, butane 2%), nitrogen
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	Internal lithium battery Battery life: 5 years (At environment temperature of 20°C)
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
Mass	1.8 kg
Material	○ Measurement portion Engineering plastic (Such as PPS), aluminum alloy ○ Outer casing Aluminum alloy Display part case 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.