Micro Water Flow Sensor

(AMWF-0420)

PRODUCT SPECIFICATION SHEET



- This sensor has excellent character in low pressure.
- The out pulse frequency has linear character in flux change.
- This sensor has a half-permanent life by high sensitivity semiconductor sensor.

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APPLICATION

This sensor is used in water flow sensing.

This sensor has application to gas boiler and instantaneous warm-water appliance, and water filtering appliance.

SPECIFICATIONS

Туре	: Magnet sensor		
Installation	: Vertical with upward flow (In case of horizontal, has to consider air-bubble)		
Water flow direction	: Free (\leftrightarrow)		
Ambient temperature	: 0 ~ 60 $^\circ\!\!\!\!^\circ$ (Atmosphere shall not be condensed on the body)		
Ambient humidity	: Room humidity (40 ~ 60%)		
Permissible fluid temperature	: 0 ~ 60 $^\circ\!\!\!\!^{\rm C}$ (It shall not be frozen, and dew condensation)		
Material	: Body	РОК	
	Rotor	РОК	
	Magnet	Ba – Ferrite	
	Stop ring	SUS304	



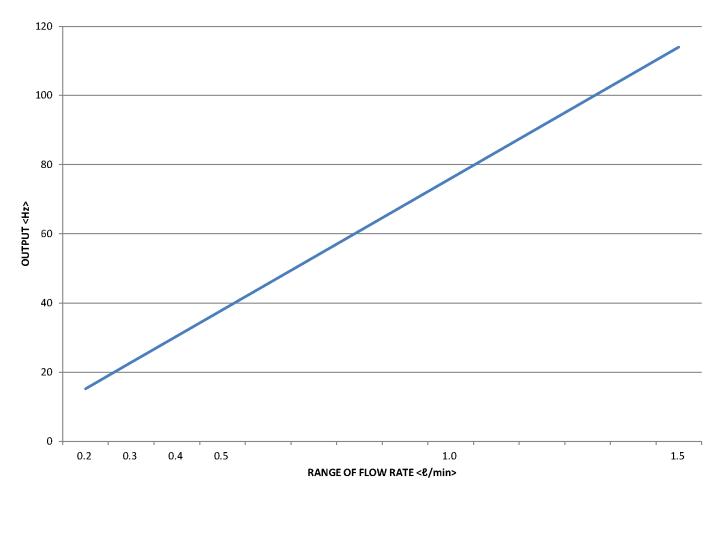
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MICRO WATER FLOW SENSOR

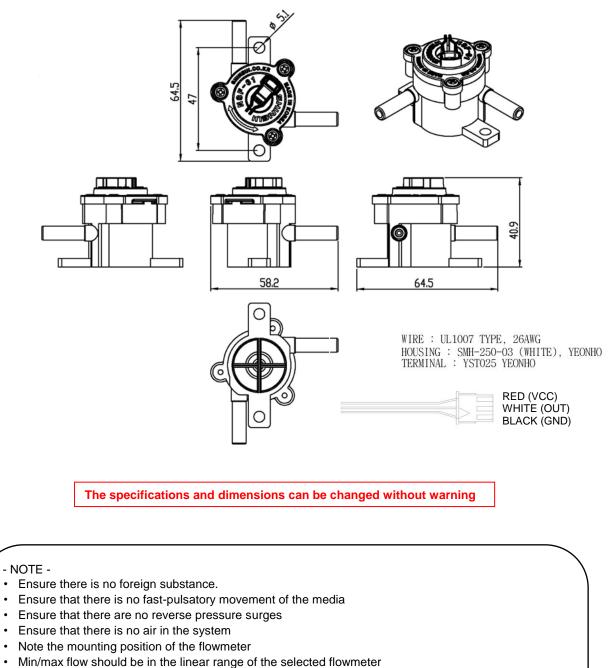
SPECIFICATIONS

Efficiency	Fluid	: Water	
	Measuring range	: 0.2 ~1.5 ℓ / min	
Formula		: F(Hz)=76Q(ℓ /min)	Accuracy F.S \pm 10%
Working pressure		: 10 kg/cm ² (Withstand pressure : 17.5kgf/cm ² - 1min)	
Electrical rating		: DC 2.7V ~ 24V, 4.5mA	
Insulation resistance		: Not less than 100 $\ensuremath{\mathbb{M}}\xspace$ (Between the connector and body)	
Dielectric strength		: When AC 600V(50/60 Hz) is added between the connector and body, detecting current is under 3 mA.	
Pipe Connection		: ONE TOUCH NIPPLE(6.5mm or 1/4 fast connector)	

GRAPH



DIMENSIONS



- Clean the system at appropriate intervals
- · Avoid electrical current peaks

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- Incorrect cabling of power supply +, signal and ground will destroy the flowmeter
- Avoid stray pick-up via the cable (Do not lay cables in parallel with high current loads)
- Avoid strong magnetic materials.
- Avoid operation by air-flow. •
- Avoid using at the condition of circumstance occuring condensation.

APPLICATION CIRCUIT

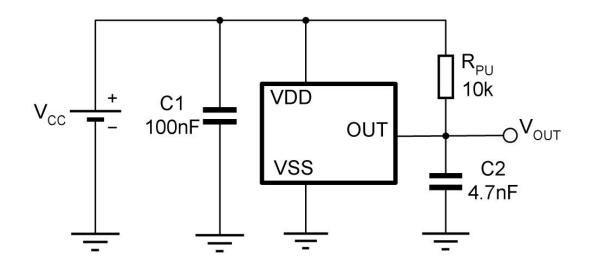
This product includes semiconductor IC.

So this have to be protected from noises of outside circuit.

Please refer to a circuit as below.

(This circuit for protecting from noise was supported by the supplier of semiconductor)

Typical Three-Wire Application Circuit



Automotive and Harsh, Noisy Environments Three-Wire Circuit

