NW Flow Sensor for Liquid

ND series instantaneous flow-rate/integrating flow volume flowmeter, it offers high accuracy measurement of not only cold and warm water but also pure water, chemical fluids, etc. It is light-weighted compact body and is compatible with various kinds of fluids with the carefully selected casing materials such as PP, ETFE, PPO, etc., and with the highly sensitive magnetic sensor of our own development.



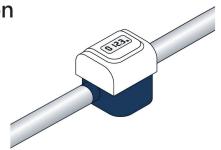
Feature

- · Built-in lithium batteries (No external power supply is required)
- · Indications of both instantaneous flow-rate and integrating flow volume by only 1 flowmeter
- · Revolving display unit (It can be fixed to a easy-to-read position)
- · Simplified structure with the vane wheel type measuring principle
- · Measurement of various liquids
- · Reset function for indications of Integrating Flow Volume (Total) and Integrating Flow Volume (Trip)
- · Value holding function for Instantaneous Flow-Rate indication
- · Pulse output function (Option)

Application

- · To control of warm water temperature
- \cdot To constantly supply water and warm water
- · To monitor coolant, etc.
- · To proportionally inject chemical fluids
- · To control pressure loss of filters

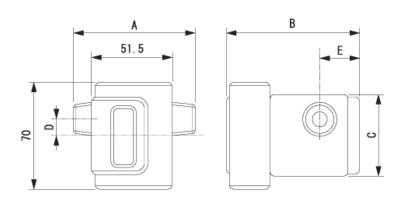




The standard installation position is that the display is facing upwards.

* The display is able to be revolved.

Dimensions



MODEL	NW05	NW10	NW20	
Α	80	80	110	
В	87	8	105.5	
С	52	52	74	
D	11	11	16	
Е	25	25	35.5	

Unit: mm

Specifications Model NW (Local display type) / Model NW-P (With pulse output)

Flow-rate Volume Die fluids king Pressure Drop osity range p. range temp. range gnal	Vario	NW05-PTP 0.3 - 3L/min %RS±0.05L/mir ous liquids (Please of more than 12) the time of 3L/r	±2%R se select with ref 1MPa kPa	erence to the fo (at the time of f	%RS±0.2L/min dard installation llowing major m luid temperature	aterials of the liq	NW20-NTP 3.0 - 60 ±2%RS±0 uid-touching ma	0.05L/min				
Flow-rate Volume Die fluids king Pressure Drop Osity range p. range temp. range gnal	Vario	%RS±0.05L/mir ous liquids (Pleas ot more than 12	±2%R se select with ref 1MPa kPa	±2 RS (with the stan Ference to the fo (at the time of f Not more	%RS±0.2L/min dard installation llowing major m luid temperature	n position) aterials of the liq	±2%RS±0	0.05L/min				
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Orop osity range p. range temp. range gnal			kPa	Not more		of 20°C)						
osity range p. range temp. range gnal					than 20kPa		1MPa (at the time of fluid temperature of 20°C)					
p. range temp. range gnal			·		Not more than 20kPa (At the time of 20L/min) (At the time of 10							
temp. range				0.5-1.5mPa·s								
gnal			0±60°C									
_		0±60°C 35-85%RH(Dew condensation must be avoided)										
2)		Open drain output (Equivalent to open collector)										
P)	Pulse width: Not less than 5ms											
	Max. rating voltage: 30 VDC $ \hbox{Output capacity: "ON resistance" Not more than 150$\Omega,} $											
"OFF resistance" Not less than $100k\Omega$ (Remained voltage						9						
	not more than 1.5V in case of input current not more than 10mA)											
t (for NW-P)		10mL/p			1mL/p			1mL/p				
w-rate	0.051 (0.2L/min			0.51.7.3					
allest Scale)	0.05L/min			0.2L/IIIII			0.5L/min					
w-rate	00.00L/min 000.00L/min				000.00L/min							
splay digits)	000.002/11111											
ume	000000.00L			000000.0L			000000.0L					
play digits)												
pply	Built-in lithium battery (Battery life 4 years. Not replaceable.)											
	·											
					· · ·	-	-	R3/4 Approx. 500g				
								PP				
		PP	CIFE		PP	EIFE		PP				
	_	POM	ETFE		POM	FTFF	_	POM				
			ETFE		_			SUS304				
Vane wheel	SUS304		FKM	NBR	FKM			FKM				
Vane wheel	SUS304 NBR	FKM										
·	on ight Casing Vane wheel	on R1/2 ight Approx. 280g Casing Denatured PPO Vane wheel POM Pivot SUS304	on R1/2 R1/2 ight Approx. 280g Approx. 280g Casing Denatured PP PPO POM POM Pivot SUS304 PA	on R1/2 R1/2 R1/2 R1/2 ight Approx. 280g Approx. 280g Approx. 280g Casing Denatured PPO PP ETFE Vane wheel POM POM ETFE Pivot SUS304 PA ETFE	IP64 equivalence IP60 PP0 Vane wheel POM IP64 equivalence IP60 PP0 IP60	Name Name	No. R1/2 R	IP64 equivalent, Indoor installation IP64 equivalent, IP64 equivalen				

Any installation position other than the standard installation position is not available for NW05-TTN, NW05-TTP, NW10-TTN, and NW10-TTP. *1: The magnet does not touch liquid.

Materials -Abbreviations

Denatured PPO	Denatured Polyphenylene oxide	PA	Polyamide
PP	Polypropylene	NBR	Acrylonitrile-Butadiene Rubber
ETFE	Ethylene-tetrafiuoro ethylene	FKM	Fluoro Rubber
POM	Polyacetal or Polyoxymethylene	Sa-Co	Samarium-Cobalt
SUS304	Stainless steel 304	Ba-Fe	Barium-ferrite