

Smart Irrigation

Automatic Level/Flow meter



▲ Efficient water management system for reservoirs and waterways

Equipped with a communication function that allows everything from measurement to data analysis.

▲ Main Achievement

01

Developed Korea's first ultrasonic reservoir automatic water level meter (2002)

02

Real-time measurement at 5,500 locations (reservoirs, waterways)

03

Performance sharing system, Rural Community Corporation (2023)

Automatic Level/Flow Meter

WRMS-1000W / WRMS-1000WC

An integrated agricultural water management system that simultaneously measures water level and flow rate and transmits the collected data to the water management office to enable preemptive response in disasters such as droughts and floods.

Features

- Installed in rivers, sheep/drainage fields, agricultural waterways, etc.)
- Two-way communication and control possible
- Various communication methods (5G, LTE, IoT)
- Various external sensor interfaces (water level, rainfall, flow rate, water quality, video)
- Data logging
- Overcharge and overdischarge prevention circuit applied
- Alarm function (exceeding range, door opening, amount of change)



Specifications

Division	Item	WRS-1000W	WRMS-1000R
	Installation	Bracket fixed, Level meter separated	Bracket fixed, Level meter integrated
	Purpose	For small water channels	For medium and large water channels or irrigation
Power Supply Unit	Power	12V DC	
	Charge method	Solar charge, Overcharge prevention	
	Battery capacity	34Ah or less	
	Battery size	200 X 130 X 170	
	Solar battery	12V 40W	
	Solar battery size	540 X 670 X 30mm or less	
Controller	LCD	240 X 128 dots LCD	
	CPU	32 Bit Microprocessor	
	Storage memory	32G Micro SD card	
	Interface	RS-232C, RS-485, RJ-45, USB, digital input, analog(4~20mA) input	
	Communication	LTE, CatM1, IoT, LoRa, CDMA, TCP/IP, SMS	
	Installation	Module integral type. Expansion slot structure	
Level Measurement Module	Measuring method	Ultrasonic	
	Measuring range	0 ~5 m	
	Resolution	± 0.25%	
	Accuracy	3mm or less	
	IP rating	IP68	
	Temperature	-20°C ~ 70°C	
Flow velocity Measurement module	Measuring method	Radar	
	Measuring range	0.1~15m/sec (depending on environment)	
	CPU	24GHz	
Body & Pole	Body dimension	600 X 400 X 280mm	
	Pole dimension	Ø100 X 2500	
	Body material	STS304 1.2t	
	Pole material	STS304 1.5t	