

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 Water Level Meter

WRMS-1000 / 1000R / 1000U

It is an integrated agricultural water management system that measures the supply of reservoirs and waterways, transmits the collected data to the water management server, and analyzes it to adjust appropriate water levels and increase water use efficiency.

Features

- installed in reservoirs, 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, water quality, video)
- Data logging
- Overcharge and overdischarge prevention circuit applied
- Alarm function (exceeding range, door opening, amount of change)



Specifications

Division	Item	WRS-1000 (RTU enclosure)	WRMS-1000R	WRMS-1000U
Power Supply Unit	Power	12V DC	12V DC	
	Charge method	Solar charge, Overcharge prevention	Solar charge, Overcharge prevention	
	Battery capacity	34Ah or less	34Ah or less	
	Battery form	Sealed type	Sealed type	
	Battery size	200 X 130 X 170mm	200 X 130 X 170mm	
	Solar battery	12V 40W	12V 40W	
	Solar battery size	540 X 670 X 30mm	540 X 670 X 30mm	
Controller	LCD	240 X 128 dots LCD	240 X 128 dots LCD	
	CPU	32 Bit Microprocessor	32 Bit Microprocessor	
	Storage memory	32G Micro SD card	32G Micro SD card	
	Interface	RS-232C, RS-485, RJ-45, USB, digital input, analog(4~20mA) input	RS-232C, RS-485, RJ-45, USB, digital input, analog(4~20mA) input	
	Communication	LTE, CatM1, IoT, LoRa, CDMA, TCP/IP, SMS	LTE, CatM1, IoT, LoRa, CDMA, TCP/IP, SMS	
	Installation	Moudule integral type. Expansion slot structure	Moudule integral type. Expansion slot structure	
Measurement module	Measuring method		Pressure, Radar	Ultrasonic
	Measuring range		1 ~ 30 m	0~5m
	Resolution		± 0.25%	
	Accuracy		3mm or less	
	IP rating		IP68	
	Temperature		-20°C ~ 70°C	
Body & Pole	Body dimension	600 X 400 X 280	600 X 400 X 280	
	Pole size		Ø100 X 2500 or more	
	Body material		STS304 1.2t or more	
	Pole material		STS304 1.5t or more	