LiquiLevel RMS

Solutions For
Underground Well Monitoring

Your Partner of Sensing and Measuring

iot Focus on Wireless Mornitoring

Remote Monitoring Terminal

105.5mm

169mm

147mm

Pressure, level and cover abnormal monitoring for underground well

Pressure, flow and temperature monitoring for firefighting/tap water pipeline network

Pressure, level, image and flow rate monitoring for water resource and so on...

Introduction

LiquiLevel RMS Remote Monitoring Terminal is compact device with battery supply, ultra-low power consumption, IP68 protection, wireless communication and various sensor data collection. In specific circumstance, multiple power supply options are available. It is suitable for monitoring fields without power supply condition and the harsh environment. It could realize the multi-function including data collection, storage, alarming and transmission for underground water, firefighting water, dam water, water supply and drainage pipeline etc. Especially it's suitable for Underground Well detection application in a harsh environment.

Features

IP68

Test 720h submersible 1mH2O, data transmission reliable and stable. Suitable for rugged environment such as underground flooding, high temperature, hot-cold alternate, sewage mildly corrosive application etc.

Low Power Consumption

It adopts large capacity and good performance lithium battery pack. It could feed the sensor and send a piece of data each day and its lifespan is over 5 years.

Non-Contact Activation, Real Time Display

Real time display for sensor channel value, device status, battery voltage, and signal status etc.
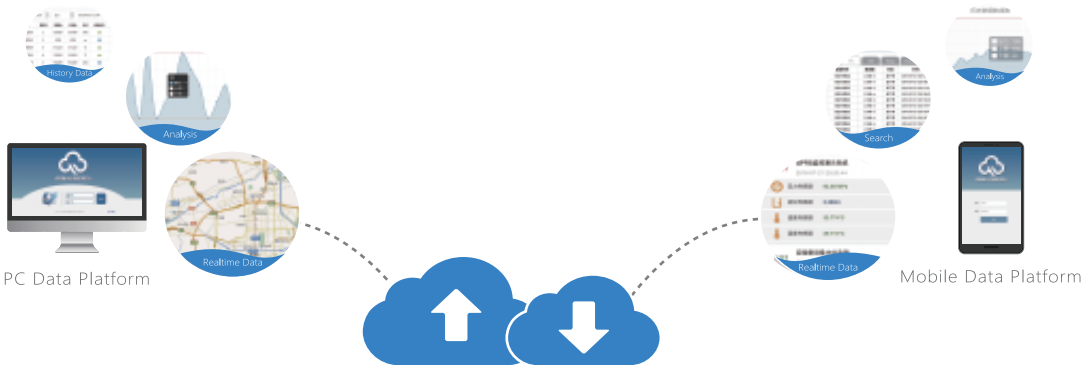
Remote Configuration

Setting for upper and lower alarm limit, collecting interval, transmitting interval, picture taking interval and IP address etc.

Multi-Channel Collection, Meet More Needs

8 channels monitoring values collection simultaneously, comprehensive monitoring for site situation.
Support RS485,analog signal,switching signal,pulse signal input.

Multi-Network Communication

2G/Multi-Bands/NB-IoT/LoRa multi-network communication. Wireless data transmission, no field wiring, easy installation.

Topology

PC Data Platform

Mobile Data Platform

Underground Well Monitoring

Underground Piping

Water Resource Monitoring

Well Cover Monitoring

Meteorological Monitoring

Agriculture Monitoring

Piping Monitoring

MPM4893W Level Transmitter

Range: 2, 5, 10, 20, 50mH$_2$O
Accuracy: ±0.5%
Power Supply: 11～28V DC
Output: 0.5~4.5V DC
Protection: IP68

MPM4893 Pressure Transmitter

Range: 20kPa～100kPa...35MPa
Accuracy: ±0.5%
Power Supply: 11～28V DC
Output: 0.5~4.5V DC
Protection: IP68

MST021 Temperature Transmitter

Range: -50~150℃
Accuracy: ±1℃
Power Supply: 11～28V DC
Output: 0.5~4.5V DC
Protection: IP68

MST051 Switch

Min. Distance: 5mm
Max Distance: 30mm
Protection: IP68

MST032
Radar Level Gauge Probe

Non-contact level monitoring
Range: 0~15m
Accuracy: ±3mm
Power Supply: 6～24V DC
Frequency: 26GHz
Output: RS485/ModBus RTU
Protection: IP68
Operation Temp.: -40～100℃

MST031
Ultrasonic Level Gauge Probe

Range: 0~8m
Accuracy: ±0.5%FS
Power Supply: 9～15V DC
Output: RS485/ModBus RTU
Operation temp.: -40～85℃

MFE600 Series Intelligent
Electromagnetic Flowmeter

Diameter: DN10～DN800
Lining: Neoprene, Polyurethane Rubber, PTFE, F46
Electrode Material: 316L, Hc, Hb, Titanium, Tantalum,
                              Platinum Iridium, Tungsten Carbide
Accuracy Grade: 0.2, 0.5, 1.0
Output: RS485/ModBus RTU
Protection Level: IP65, IP68
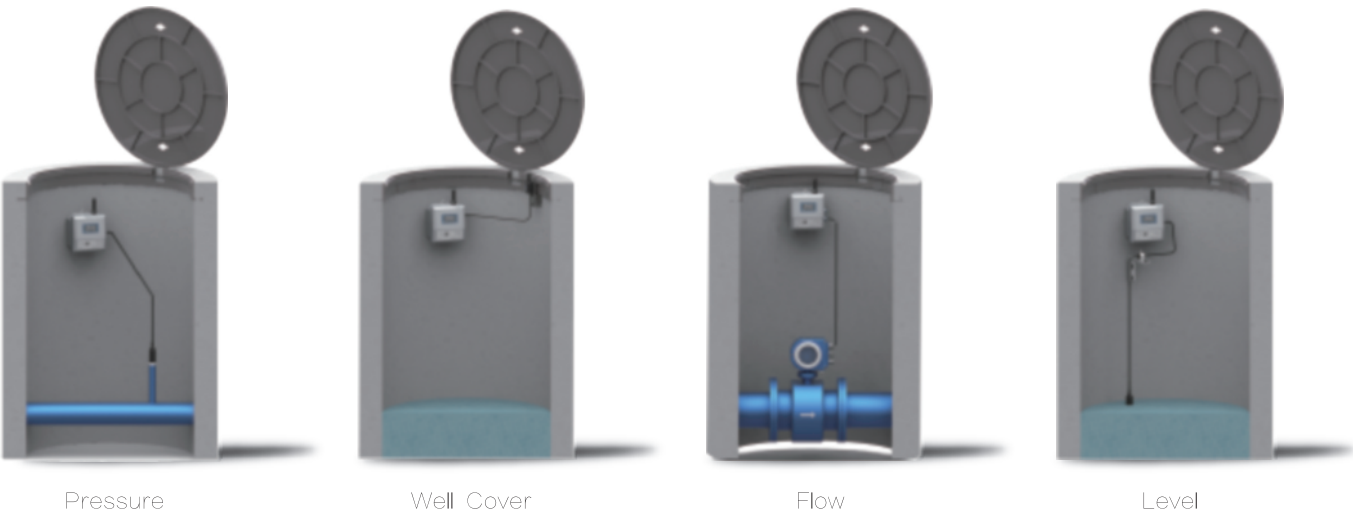Power Supply: 220V AC, 24V DC, 3.6 V Battery Power Supply

MST071 Camera

Field image moniotoring
Power Supply: 9～28V DC
Camera: COMS
Resolution: 640*480
Output: RS485
Protection: IP68
Operation Temp.: -40～85℃

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Solutions For Underground Well Monitoring

| Pressure | Well Cover | Flow | Level |

Earth1006 Remote Monitoring Terminal is mainly applied for city underground well with rugged environment. It can monitor level,flow,pipeline pressure,image,well covers abnormal to realize unattended operation for city underground well.
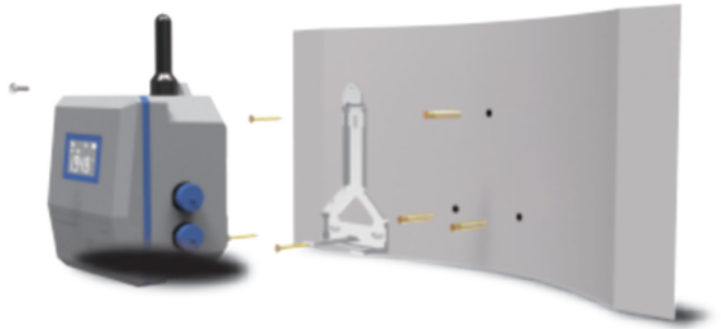
Parameter

Power Supply	Battery/Solar Energy/12~28V DC/110~240V AC		
Power Consumption	Sleep Current ≤30uA@14.4V, Transmission Average Current≤40mA@14.4V		
Interface	3-way AI,2-way DI/PI,1-way RS485,1-way Camera		
Communication Mode	2G/Multi-Bands/NB-IoT/LoRa		
Wake-Up Mode	Magnetic Activation/Timing/Alarm Wake-Up		
Sampling Interval	1,5,10,30,60,360,720,1440min. Optional, Alarm According to Setting Interval		
Send Interval	1,5,10,30,60,360,720,1440min. Optional		
Photo Interval	330,60,720,1440min. Optional		
Uploading Information	Sensor Data, Battery Voltage, Signal Status, Self-Check Information		
Local Storage	Flash 4MB (more than 200,000 history data storage space)		
Accessories	Magnetic Bar *1, Fixed Support*1, bolt*1, Expansion Bolt*3, Hoop *2		
Display	Segment LCD, with backlight		
Configuration	local and remote configuration		
Working Temperature	-20℃~70℃	Storage Temperature	-40℃~85℃
Protection	IP68	Housing Material	PA6+30%GF
Outline Dimension	147*162*105.5mm (antenna except)	Weight	~2.3kgs

Installation

1.Hoop Mountin   2.Wall Mounting

Application Onsite

Data Platform

Our sensor data platform serves for monitoring terminal products like pressure sensors, level sensors etc. It can show site data in curve or table format. Moreover, customers can set and monitor the parameter of site products remotely. Users can know real-time site condition remotely and provide accurate, efficient solutions once emergency situation occurs.

LiquiLevel IOT

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