



Benefits:

- 1. Fully Calibrated, linearized
- 2. Probe Material: Stainless steel 316L, IP68
- 3. Electronic Housing: IP66
- 4. High reliability and long-term stability
- 5. Built-in Li-SOCI2 battery with battery life up to 5 years
- 6. RTC Function: Each data will real time stamps
- 7. Data Cache when wireless connection temporary break down
- 8. Sensor probe cable length can be up to 10 meters (Standard is 1,5 meters)

SUBMERSIBLE WATER LEVEL SENSOR

The submersible liquid level transmitter utilizes a high performance diffused silicon pressure sensor as the measuring element to measure the hydrostatic pressure proportional to the liquid depth and convert it into a standard current or voltage signal output.

Sensor implementations:



WTP/WWTP/Water Supply



INDUSTRIAL WASTEWATER



TANK MONITORING



Rukan Crown, Blok A No.25, Jl. Green Lake City Boulevard, Tangerang, Banten 15147



+62 813 9999 1485



iki@weiotics.io

<https://weiotics.io/>



IOT KREASI INDONESIA



SUBMERSIBLE WATER LEVEL SENSOR



The sensor assists in reading the water level within the clean water storage tank with sensor installation submerged to the tank's bottom. The sensor will convert pressure readings into water volume/level readings. The maximum height measurement of the sensor is 10 meters.

Suitable for Measurement

- Various media in petrochemical
- Metallurgy
- Pharmaceutical
- Water Supply
- Drainage System
- Other Industry

Technical Specification

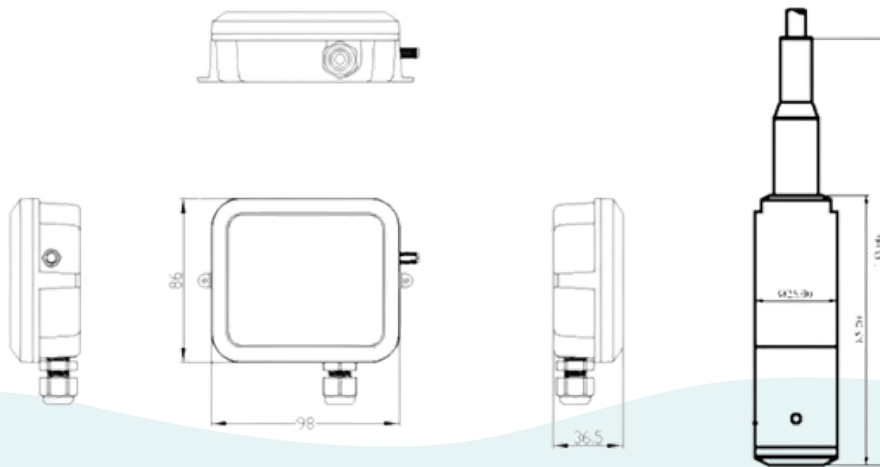
PARAMETERS	SUBMERSIBLE WATER LEVEL	
Measurement range	0 mH2O~1 mH2O---200 mH2O	
Overload range	$\geq 2x$ full scale, (5 mH2O above) $\geq 5x$ full scale, (5 mH2O and below)	
Power supply	3.6V DC (8500mAh Lithium Battery)	
Body material	Stainless steel 316L	
Sealing ring	Fluororubber	
Cable	Ø7.5mm polyethylene cable	
Waterproff	IP68	
Applied measured liquid	Various fluids that are non-corrosive to 316L stainless steel and fluororubber	
Temperature compensation range	0°C~70°C	
Operation temperature range	-20°C~75°C	
Storage temperature range	-40°C~125°C	
Accuracy	$\leq \pm 0.5\%FS(\text{Max})$	
Zero temperature error	$\pm 0.05\%FS/^\circ C (\leq 5 \text{ mH2O})$	$\pm 0.02\%FS/^\circ C (> 5 \text{ mH2O})$
Sensitivity error	$\pm 0.05\%FS/^\circ C (\leq 5 \text{ mH2O})$	$\pm 0.05\%FS/^\circ C (> 5 \text{ mH2O})$
Drift	$\pm 0.3\%FS/\text{year}(\text{Max})$	






PARAMETERS	SUBMERSIBLE WATER LEVEL
Specification of LoRa Part	
Power supply	3.6V/8500mAh
Standby current	25µA
TX transmission current	126 mA @20 dBm
MCU	Arm 32-bit Cortex -M0+ with MPU
Memories	192KB Flash memory; 20KB RAM; 6KB EEPROM
Communication Protocol	Standard LoRaWAN Class A
Supporting frequency	863-870 MHz, 902-926 MHz
TX Power	Up to 20 dBm
RX Sensitivity	Down to -137 dBm
Channels	8 settable channels with bandwidth of 125 KHz
Data rate	980 Kbps ~ 3.125 Kbps Adaptive data rate supporting spreading factor of SF8-SF10
Listen Before Talk (LBT)	Yes
Number of data cached when wireless network interrupted (with ACK function enabled)	10

Structure and Dimension



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