

LoRaWAN pH Transmitter



Smart Agriculture, Smart Building, Smart City, Smart Facility, Smart Factory, Smart Farm, Smart Utilities

SKU: WSLRW-PH100

LORAWAN PH TRANSMITTER WSLRW-PH100



Safe Zone



Hazardous Zones

WSLRW-PH100 is a LoRaWAN wireless transmitter with built-in ultra-low-power amplifier for connecting to external pH probe and temperature sensor like PT100 or PT1000, based on 14-year experience in design and manufacturing Industrial sensor of Daviteq Company. The transmitter can be configured with fixed temperature compensation or automatic temperature compensation. It has been factory pre-calibrated for high accuracy and quick set-up. The Ultra-Low Power design and smart firmware allow the sensor to last up to 10 years with 02 x AA battery (depending on configuration). The sensor will transmit data over kilo-meters away to the LoRaWAN gateway, any brand on the market. Some typical applications are pH and temperature monitoring for factories, agriculture, boilers...

Applications

Water Quality Monitoring, Process Water Monitoring, Waste Water Quality Monitoring

Notes For Applications



LoRaWAN communication

LoRaWAN communication standard to allow sensor connect to any LoRaWAN Gateway on the market



10-Year battery

Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology to allow the sensor can last up to 10 years with 2 x AA batteries 1.5VDC



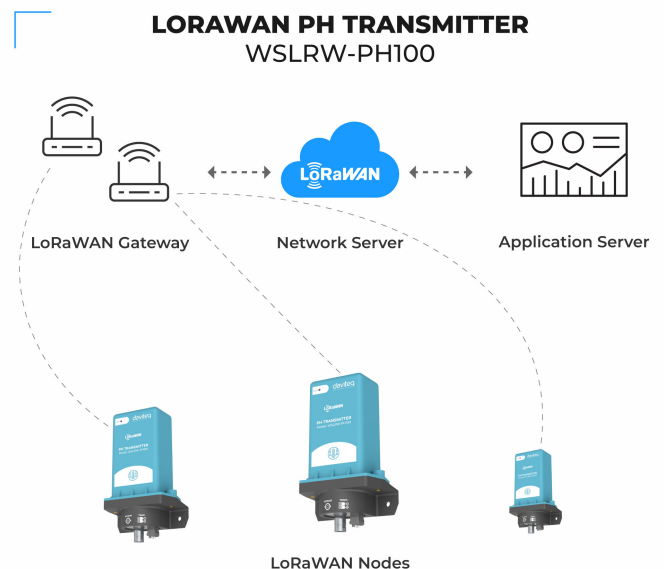
Pre-calibrated

Pre-calibrated sensor at factory to deliver high accuracy and quick installation



Temperature Compensation

Configurable for either fixed or automatic temperature compensation, enhancing measurement precision



SYSTEM ARCHITECTURE

DAVITEQ TECHNOLOGIES INC

Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

+84.28.6268.2523 / 6268.2524

info@daviteq.com

www.iot.daviteq.com

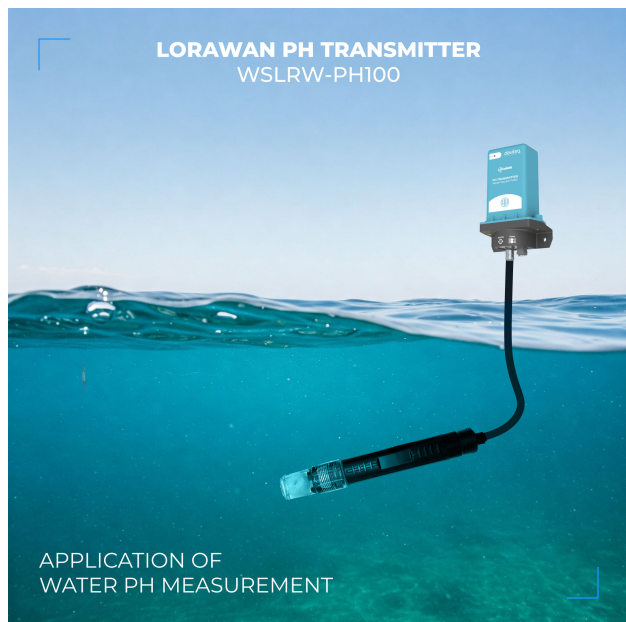
Created date: Jul-09-2024

Updated date: Jun-27-2025

Specification

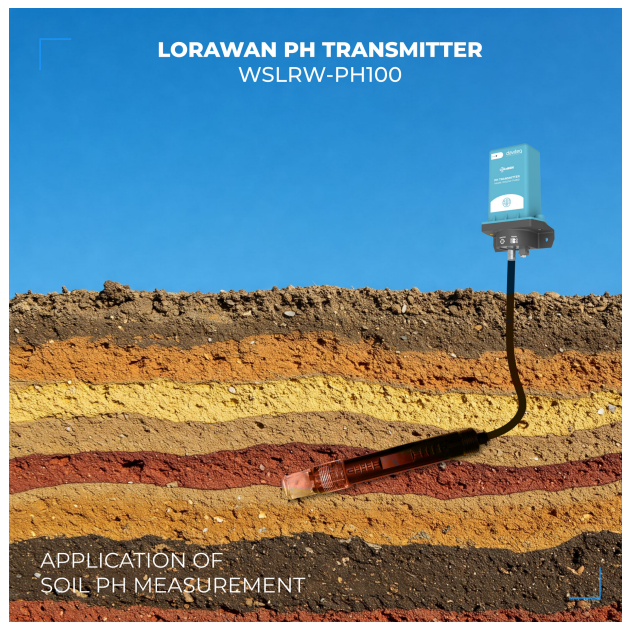
pH Sensor Input	pH sensor
pH Measuring range	pH 0~14
Resolution of pH	0.1
Accuracy of pH	±0.1
Temperature Sensor Input	PT100, PT1000, Thermistor
Temperature measuring range	0~100°C
Temperature resolution	0.1°C
Working temperature	-40~60°C
pH Connector	BNC
Temperature Connector	Terminal block
COMMUNICATION	
SF Factors	SF7~SF12
Antenna	Internal Antenna 2.0 dBi
Battery	02 x AA size 1.5, battery not included
RF Frequency and Power	860~930MHz, 14~20dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN, class A
Data sending modes	Interval time, magnetic trigger and alarm
Certification	CE, FCC marks
Working temperature	-15~60°C (using L91 Energizer® battery)
Dimensions	H180xW90xD50mm
Net-weight	300g
Housing	Polycarbonate & POM plastic, IP65

LORAWAN PH TRANSMITTER WSLRW-PH100



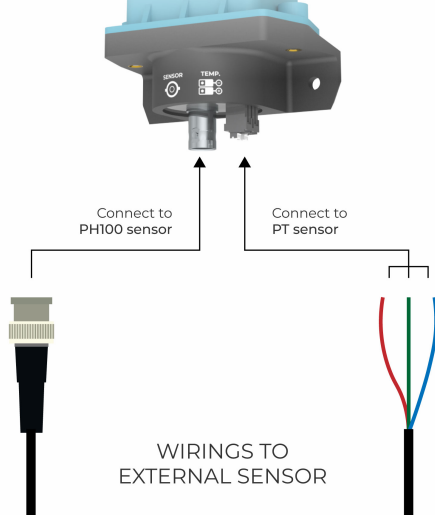
APPLICATION OF
WATER PH MEASUREMENT

LORAWAN PH TRANSMITTER WSLRW-PH100

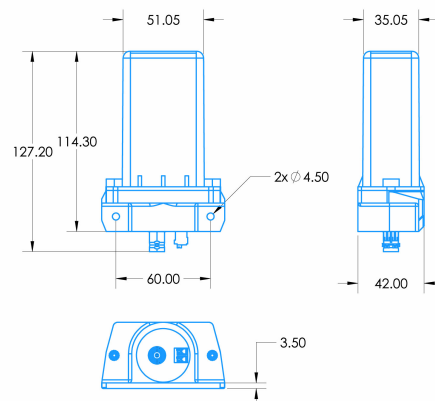


APPLICATION OF
SOIL PH MEASUREMENT

LORAWAN PH TRANSMITTER WSLRW-PH100



LORAWAN PH TRANSMITTER WSLRW-PH100



DIMENSION DRAWING OF
WIRELESS NODE (Unit: mm)

LORAWAN PH TRANSMITTER WSLRW-PH100



E91 AA
Alkaline battery

-18~60°C working temperature
10-year shelf life
3000 mAh capacity
Price: 1X

Energizer

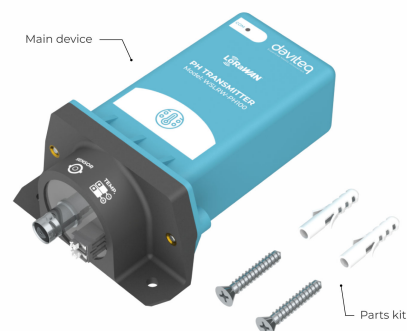


L91 AA
Lithium battery

-40~60°C working temperature
20-year shelf life
3500 mAh capacity
Price: 3.5X

RECOMMENDED BATTERIES
POWERED BY PRIMARY BATTERY

LORAWAN PH TRANSMITTER WSLRW-PH100



STANDARD PRODUCT PACKAGE

DAVITEQ TECHNOLOGIES INC

Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

+84.28.6268.2523 / 6268.2524

info@daviteq.com

www.iot.daviteq.com

Created date: Jul-09-2024

Updated date: Jun-27-2025

Ordering Information

ITEM CODE	DESCRIPTIONS
WSLRW-PH100-PT100	LoRaWAN pH Transmitter for pH sensor with Pt100 temperature sensor for compensation, BNC connector, Internal antenna, Type AA battery 1.5VDC, IP67, 860-930MHz for all regions
H087-0020	pH Sensor combo probe, In-line type, 3/4NPT, cPVC, 6m cable, BNC connector

DAVITEQ TECHNOLOGIES INC

 Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

 +84.28.6268.2523 / 6268.2524

 info@daviteq.com

www.iot.daviteq.com

Created date: Jul-09-2024

Updated date: Jun-27-2025