

SENSORS CATALOGUE Expertise Meets Innovation

CONNECTIVITY

Lorall Rall AN

SECTOR



More catalogues

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IP67/ IP68

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10+ years battery-life

100+ sensor types

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HELLO THE WORLD

Established in 2004, Daviteq is a leading company specializing in Process Automation. In 2009, recognizing the importance of innovation, Daviteq established the Research and Development Department to enhance its product and solution offerings to better meet customer needs. This initiative led to the introduction of the Daviteq sensor line and the IoT Platform Globiots.

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K STAND BY YOUR SIDES

Smart Energy Smart Factory Smart Transport Smart Facility Smart Building Smart City Smart Health Smart Retail Smart Agri





FIT WITH YOUR CONNECTIVITIES

Daviteg's product range includes cutting-edge solutions such as Fuel level sensors, wireless sensors, temperature sensors, wireless humidity sensors, differential pressure sensors, and more. These products seamlessly integrate with the Globiots platform, providing customers with a comprehensive solution that both hardware and encompasses software. Notably, Daviteg's products have gained widespread acclaim in Vietnam and have successfully penetrated international markets with stringent technical requirements, earning positive feedback.

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LoRaWAN

LoRaWAN is a Low Power Wide Area Network (LPWAN) protocol designed for wireless communication between IoT devices. It is based on LoRa technology, which is a proprietary modulation technique used for long-range wireless communication.

The LoRa Alliance® is a non-profit association of companies that promote the development and adoption of LoRaWAN. It was founded in 2015 and has since grown to include over 500 member companies from around the world.

LoRaWAN has many applications in the IoT industry, including Smart City, Agriculture, Logistics, and Industrial Automation. Its long-range capabilities and low power consumption make it ideal for remote monitoring and control of devices.

LoRaWAN

LoRaWAN Radar Level Sensor	WSLRW-RDW
LoRaWAN Heavy-duty Tilt Sensor	WSLRWAL-AG
LoRaWAN Ex d Tilt Sensor	WSLRWEX-AG
LoRaWAN Ex d Electro-chemical Oxygen Sensor	WSLRWEX-02
LoRaWAN Mini Control Valve	WSLRW-BV
LoRaWAN Ex d Acoustic Sensor	WSLRWEX-ACS
LoRaWAN Indoor Carbon Dioxide Sensor	WSLRW-I-CO2
Smart Valve Positioning Sensor	SVP
LoRaWAN Outdoor Gateway	GWLRW
LoRaWAN Ex d Electro-chemical Gas Sensor	WSLRWEX-G
LoRaWAN Ex d PID Gas Sensor	WSLRWEX-PID
LoRaWAN Industrial Ambient Temperature Sensor	WSLRW-S-ATE
LoRaWAN Ambient Light Sensor	WSLRW-AL
LoRaWAN Digital Input Node	WSLRW-DI
LoRaWAN Indoor Gateway	GWIND
LoRaWAN Current Input Node	WSLRW-MA
LoRaWAN Oxygen Sensor	WSLRW-02
LoRaWAN Process Pressure Sensor	WSLRW-PPS
LoRaWAN PT100 Temperature Sensor	WSLRW-PT100
LoRaWAN Sound Level Sensor	WSLRW-SL
LoRaWAN Thermocouple Temperature Sensor	WSLRW-TCK
LoRaWAN Ultrasonic Level Sensor for Trash bin	WSLRW-ULA
LoRaWAN Ultrasonic Level Sensor for Trash Bin	WSLRW-ULB
LoRaWAN Ultrasonic Liquid Level Sensor	WSLRW-ULC
LoRaWAN Piezo-Electric 10kHz Vibration Sensor	WSLRW-V1A
LoRaWAN Heavy Duty Digital Input Node	WSLRWAL-DI
LoRaWAN Ex d Digital Input Node	WSLRWEX-DI
LoRaWAN Ex d NDIR Flammable Gas Sensor	WSLRWEX-GHC
LoRaWAN Ex d Process Pressure Sensor	WSLRWEX-PPS
LoRaWAN Tilt Sensor	WSLRW-AG
LoRaWAN Precision Fuel Level Sensor	WSLRW-CAP10
LoRaWAN Carbon Dioxide Sensor	WSLRW-CO2
LoRaWAN Gas Detecting Sensor	WSLRW-G4
LoRaWAN Toilet Odor Sensor	WSLRW-G4F-NH3



LoRaWAN Radar Level

Level Monitoring, Process Monitoring, Flood Monitoring, Safety Monitoring, Smart Irrigation, Infrastructure Monitoring

Maintenance free

Long life design

WSLRWAL-AG

Tilt Sensor

Applications

LoRaWAN Heavy-duty

Facility Monitoring, Flood Monitoring, Infrastructure Monitoring, Level Monitoring, Machine Health Monitoring, Safety Monitoring, Tilt Monitoring



WS,RM

RWEX.40.41 JPG	
LoRaWAN Communication	10-Year battery
High Precision Tilt Measurment	Heavy-duty design

SPECIFICATION

LoRaWAN

SENSOR		SF Factor	
Technology	Frequency Modulated Continuous Wave (FMCW) radar	Antenna	
Frequency	26GHz ~±250MHz, PULSE radar emission pulse time <3ns	Power	
Range of level measuring	0.40 ~ 30m/ 0.60 ~ 70m	RF Frequenc	
Resolution	1 mm	Power	
Level Measuring Accuracy	±5mm for 30m range /±10mm for 70m range	Protocol	
Beam Width	6°~18° (with antenna)	Data sending	
Dielectric constant range	2.5~100, Medium viscosity<1000cp	modes	
Process Temperature	-40 ~ 100 ℃ / -40 ~ 320℃ (Distribution pipe flange)	RF Module complies to	
	(Operating temperature	

LoRaWAN communication

Powered by Solar

SF Factor	SF7~SF12
Antenna	External Antenna 2.0 dbi
Power	Solar Panel 18V/9W with Rechargeable batteries x 4 battery cell Li-on 3200mAh, 3.7 V
RF Frequency and Power	860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN, class A
Data sending modes	Interval time or when alarm occurred or magnetic key touch
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Operating temperature of device	-20~50°C (limited by Batteries)
Housing/Protection	Aluminum & PC plastic

SPECIFICATION

	deliver tilt angle measurement of	SF Factors	SF7~SF12
Tilt Sensor		Antenna	External antenna
			Primary batteries 01 x C size
Tilt Measurement±90° for AG-01 version ±30° for AG- 03 version	Power Supply	3.6VDC (battery not included) or Solar Panel with Rechargeable batteries 1 x C size (not included)	
Tilt Resolution	±0.01° for AG-01 version ±0.001° for AG-03 version		860~930MHz, 14~20 dBm,
	RF Frequency and Power	configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915	
Tilt Temperature	Tilt Temperature±0.2° per 10°C for AG-01 versionDrift(when installation X~0° and Y~0°)	Protocol	LoRaWAN Class A V1.0.3
Drift		Data sending	interval time, alarm and manually
Sensor sampling rate	1Hz max (recommend for Solar powered version)	modes	triggering by magnetic key
		Alarm function	for X-axis and Y-axis only
		Housing	Cast aluminum, IP66
		Ambient working temperature	-40~85°C (use with SAFT LS26500)











LoRaWAN Ex d Tilt

Facility Monitoring, Flood Monitoring,

Machine Health Monitoring, Safety Monitoring, Tilt Monitoring

10-Year battery

Ex d Zones 1-2-21-22

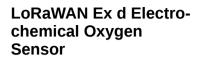
Infrastructure Monitoring, Level Monitoring,

Sensor

Applications

ATEX IECEX

LORAWAN Ex d OXYGEN SENSOR WSLRWEX-G-02



LoRaWAN

ATEX IECEX

Applications

Ambient Air Quality Monitor, Indoor Air Quality Monitor



SPECIFICATION

LoRaWAN

WSLRWEX-AG-H1.JPG

	Built-in advanced accelerometer to	SF Factors	
Tilt Sensor	deliver tilt angle measurement of XYZ for AG-01 version, XY for AG- 03 version	Antenna	
Tilt Measurement	±90° for AG-01 version ±30° for AG-	Power Supply	
range	03 version		
Tilt Resolution	±0.01° for AG-01 version ±0.001° for AG-03 version	RF Frequenc	
Tilt Repeatability	$\pm 0.075^{\circ}$ for AG-01 version $\pm 0.010^{\circ}$ for AG-03 version		
Tilt Temperature	$\pm 0.2^\circ$ per 10°C for AG-01 version (when installation X ${\sim}0^\circ$ and Y ${\sim}0^\circ)$	Protocol	
Drift		Data sending	
Sensor sampling	1Hz max (recommend for Solar	modes	
rate	powered version)	Alarm functio	
		Housing	

LORAWAN Ex d TILT SENSOR

WSLRWEX-AG

LoRaWAN Communication

High Precision Tilt Measurment

SF Factors	SF7~SF12
Antenna	External antenna
Power Supply	Primary batteries 01 x C size 3.6VDC (battery not included) or Solar Panel with Rechargeable batteries 1 x C size (not included)
RF Frequency and Power	860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN Class A V1.0.3
Data sending modes	interval time, alarm and manually triggering by magnetic key
Alarm function	for X-axis and Y-axis only
Housing	Cast aluminum, IP66
Ex Certification	IMQ 14 ATEX 005 X, TÜV CY 18 ATEX 0206158 X

SPECIFICATION

Measurement

Gas sensor type and specification

technology

LoRaWAN

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	Daviteq High-performance Ultra-low	SF Factors	SF7~SF12
power Electro-chemical Gas Sensor List of compatible O2 sensors and specification	Antenna	External Antenna 2.0dbi	
		RF Frequency and Power	860~930MHz, 14~20dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AS923-2, AU915, US915
		Protocol	LoRaWAN® Class A
		Data sending modes	interval time, an alarm occurred and manually triggered by a magnetic key. Recommend max 24 messages per day
	Configuration	via Downlink or offline USB cable (PC software is supplied for free)	
		Battery	01 type D 3.6V LiSOCI ₂ battery (recommended SAFT LS33600)
		Equipment housing	Aluminum alloy, powder coated, IP66, Wall mount installation
		Certified Ex d	IMQ 14 ATEX 005 X, TÜV CY 18 ATEX 0206158 X and IECEX DEK 15.0048X









PRODUCT PAGE

LoRaWAN Mini Control Valve WSLRW-BV

WSLRW-BV

WSLRWEX-ACS

LoRaWAN



LoRaWAN Mini Control Valve

Applications

Smart Irrigation, Water Supply System, Water Level Control, Oil Level Control

WSLRW-BV-H1.JPG

LoRaWAN communication	5-Year battery
Remote Control via Class A or Class C	Valve Health Diagnostic

LoRaWAN Ex d Acoustic Sensor

ATEX IECEX

Applications

Gas Leakage Detection, Valve Monitoring, **PRV** Monitoring

LoRaWAN communication	Multi-parameter measurement
Plug and Play	Easy Installation

SPECIFICATION

Valve Body	Ball valve, low torque design	SF Fac
Body materials	Brass (standard), 304SS, 316SS	Antenn
Sealing	EPDM (standard), NBR, Silicone Rubber	Power
Seat	PTFE	
Ball	304SS (standard), 316SS	RF Fre
Size	DN8, DN15, DN20, DN25	Power
Process connection	BSPP female threads	
Cable	2m molded M12 connector cable	Protoco
Working temperature	0~100°C	Data se modes

SF Factors	SF7~SF12
Antenna	Internal Antenna 2 dbi
Power Supply	Primary batteries 02 x D size 3.6VDC (battery not included)
RF Frequency and Power	860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN Class A or Class C V1.0.3
Data sending modes	interval time, alarm and manually triggering by magnetic key
Alarm function	Yes
Remote control via downlink	Class A or Class C mode
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)

	Measurement	Daviteq vibration and acoustic	SF factors	SF7~SF12
	technology	measurement technology	Antenna	2 dbi external antenna N-type
	Measured Parameters	Acoustic level (0~255), Temperature (°C)	RF power and frequency	860~930MHz, 14~20dBm, configurable for zones: EU868,
	Measured Temperature Range	-40~260°C		IN865, RU864, KR920, AS923, AS923-2, AU915, US915
	Ambient humidity	0~100% BH	Protocol	LoRaWAN® Class A V1.0.3
	range Ambient		Data sending mode	cyclically, or when an alarm occurs or activated by a magnetic key.
	temperature range	-40∼85℃	RF module compliant	ETSI EN 300 220. EN 303 204
	Process Temperature Range	-40∼260°C		(Europe) FCC CFR47 Part15 (USA), ARIB STD-T108 (Japan)
			Device certification	CE or FCC on demand
			Configuration	via Downlink or via USB cable (PC software provided free of charge)
			Power supply	1 x D size battery 3.6V LiSOCl2 (recommend Saft LS33600)









WSLRW-I-CO2

SMART VALVE POSITIONING SENSOR SVP

SVP



WSLRW-I-COZ-H1_JPG

LoRaWAN

GOOM I IN I	
LoRaWAN communication	5-10 years battery
High Accuracy & Stable	Measure other parameters

Approval Working temperature

LoRaWAN Indoor **Carbon Dioxide Sensor**

Applications

Indoor Air Quality Monitor, Warehouse Monitoring



Easy to install with multiple mounting options

Smart Valve Positioning Sensor

Valve Positioning Monitoring, Vibration Monitoring

Internal sensors for 3-axis acceleration, tilt,
rotation, magnetic field, vibrations,
temperature

Robust IP69K industrial housing

SPECIFICATION

	CO ₂ Sensor	Advanced NDIR sensor	SF Factor
	technology		Antenna
	CO ₂ range/ resolution/	0~5000ppm or 10000/ 1ppm/ (±30ppm + 3% reading)	Battery
	accuracy	(II),	
	Repeatability	\pm 30ppm + 3% reading (in 0~50°C, after zeroing at 25°C)	RF Frequency Power
	Temperature range/	-40~80°C/ 0.1°C/ ±0.3°C in range 0-	
resolution/ accuracy	50°C	Protocol	
	50 C	Data sending	
Humidity range/ resolution/ accuracy	0-100% RH/ 0.1% RH/ ±1.5% RH (in	modes	
		range 0-80% RH)	RF Module
			complies to

	SF Factor	SF7~SF12
	Antenna	Internal Antenna 2.0 dbi
	Battery	02 x AA size 1.5VDC, battery not included
	RF Frequency and Power	860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
	Protocol	LoRaWAN, class A
	Data sending modes	Interval time and when alarm occurred
	RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
	Vietnam Type Approval	TBA soon
	Working temperature	-40~60°C (with AA L91 Energizer®)

SENSOR		Radio/ Wireless	868MHz/ 915MHz
SPECIFICATION		Wireless	LoRaWAN 1.0.3
Accelerometer		technology	Lonawan 1.0.5
Range	±2g, ±4g, ±8g, ±16g	LoRaWAN Device	Class A
Resolution	12-bit, 4mG	type	
Accuracy (typ.)	±40mG	Supported	OTAA, ADR, Adaptive Channel
Magnetic sensor		LoRaWAN features	
Detection threshold	Mov +4.9 mT	Sensitivity	-137dB (SF12)
Detection threshold	Widx. ±4.0 1111	RF transmission	14dBm/ 22dBm (depending on
Magnetic response	Omnipolar	power	region)
Reset activation (typ.)	After 7.5 sec		











LoRaWAN GATEWAY GWLRW

Connect to any LoRaWAN sensors

Support all Network Server Software

LoRal/AN

GWLRW-H1_JPG

GWLRW

Gateway

Applications

LoRaWAN Outdoor

Condition Based Monitoring, Energy

Various Internet connections

For Outdoor Installation

Monitoring, Facility Monitoring, Fuel Monitoring, Gas Leakage Detection, Machine Health Monitoring, Production Monitoring, Temperature Monitoring, Vibration...

WSLRWEX-G

LoRaWAN Ex d Electrochemical Gas Sensor

ATEX IECEX

Applications

Gas Leakage Detection, Ambient Air Quality Monitor, Indoor Air Quality Monitor

LoRaWAN communication	High Performance Sensor
5-10 years Battery life	Ex d Zones 1-2-21-22

SPECIFICATION

LoRaWAN	LoRaWAN 1.0.3	4G LTE
Specification		GPS
Frequency Band	Select 863~870MHz/ 902~928MHz	
Number of Channels	Up to 8 concurrent channels for LoRa transmission	Interfaces
LoRa Transmit Power	0.5W (up to 27 dBm)	
LoRa Receive Sensitivity	Down to -142 dBm (conducted)	Antenna Type
LoRa Software	Standard and LRR Actility	
Operating	-10∼55℃	Housing
Temperature		Dimensions
Storage Temperature	-20~60°C	Weight
Power Supply	DC 12 V/1.5 A-Power Adaptor/ DC 10~30 V 3-Pin Connector Power supply/ Passive PoE 10~30 V	

LTE Cat 4 or Cat M1/NB2
GPS + GLONASS, L1C/A band
1 WAN RJ45 10/100Mbps (w/ passive PoE capability), 1 SIM card slot (2FF), 1 DC jack in/ 1 terminal block
1 x external LoRa antenna, 1 x External antenna for LTE, 1 x external Wi-Fi antenna, 1 x external GPS antenna
Cast Aluminum, IP66, can withstand Wind speeds up to 120 $\mbox{Km/h}$
L:220 x W:300 x H:55mm
< 2.0kg

SPECIFICATION

SF Factors	SF7~SF12
Antenna	External Antenna 2.0dbi
	860~930MHz, 14~20dBm, configurable for zones: EU868,
Power	IN865, RU864, KR920, AS923, AS923-2, AU915, US915
Protocol	LoRaWAN® Class A
Data sending modes	interval time, an alarm occurred and manually triggered by a magnetic key. Recommend max 24 messages per day
Configuration	via Downlink or offline USB cable (PC software is supplied for free)
Battery	01 type C 3.6V LiSOCI ₂ battery (recommended SAFT LS26500)
Housing	Aluminum alloy, powder coated, IP66, Wall mount installation
Certified Ex d	IMQ 14 ATEX 005 X, TÜV CY 18 ATEX 0206158 X and SIRA 10ATEX1358X
	Protocol Data sending modes Configuration Battery Housing





PRODUCT PAGE





PRODUCT PAGE

WSLRWEX-PID

Sensor

Applications

ATEX IECEX

LoRaWAN Ex d PID Gas

Gas Leakage Detection, Ambient Air Quality Monitor, Indoor Air Quality Monitor, Gas Analyzing, Warehouse Monitoring

WSLRW-S-ATE LOREWAN INDUSTRIAL AMBIENT TEMPERATURE SENSOR WSLRW-S-ATE

LoRaWAN Industrial **Ambient Temperature** Sensor

IP68 Sensor Probe



High Accuracy & Stable

WSLRWEX-PID-H1.JPG

LoRaWAN

LoRaWAN

LoRaWAN communication	High Performance PID Gas Sensor
Easy operation at Field by LCD	Ex Solar Powered

SPECIFICATION

Measurement technology	Daviteq high-performance PID gas sensor	SF fa
leciniology		Anten
Measured Gases	VOCs and Hydrocarbons (1000+ types of VOC and gas)	RF po
Principle and Sensor Specification	please follow this link	freque
Relative humidity		Proto
range	0~99% RH, non-condensing	Data
Operating Temp	-40~55℃ (except 0~40℃ for Range	
Range	3ppm sensor)	RF m
	,	comp

SF factors	SF7~SF12
Antenna	2 dbi external antenna N-type
RF power and frequency	860~930MHz, 14~20dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AS923-2, AU915, US915
Protocol	LoRaWAN® Class A V1.0.3
Data sending mode	cyclically, or when an alarm occurs or activated by a magnetic key.
RF module compliant	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (USA), ARIB STD-T108 (Japan)
Device certification	CE or FCC on demand
Configuration	via Local LCD, or Downlink or via USB cable (PC software provided free of charge)
Power supply	12~35VDC, max 200mA by external DC supply or Ex approved Solar Power Skid (as below ordering information)

053 0540

SPECIFICATION

LoRaWAN

WSLRW-S-ATE-H1 PNG

	Digital type, factory calibrated, IP68,	SF Factor	SF7~SF12
Sensor	immersible to ice-water for quick validation	Antenna	Internal Antenna 2.0dbi
Measuring range	-35∼70°C	Power Supply	Primary batteries 1 x AA size 3.6VDC (battery not included)
Accuracy & Resolution	< ±0.5℃, 0.125℃	RF Frequency and	860~930MHz, 14~20dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923,
Sensor Material	ensor Material PA plastic with PVC cable	Power	
Cable length	select 200mm, 500mm, 1000mm		AU915, US915
Sensor Probe rating	IP68	Protocol	LoRaWAN Class A V1.0.3
		Data sending modes	interval time, and alarm
		Alarm function	Low Alarm and High Alarm
		RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
		Vietnam Type Approval	





PRODUCT PAGE





WSLRW-AL

LoRaWAN NODE WITH DIGITAL INPUTS WSLRW-DI



LoRaWAN

LoRaWAN Ambient Light Sensor

CE FCC

Applications Facility Monitoring, Safety Monitoring



WSLRW-DI-H1_JPG

LoRaWAN	Digital	Input
Node		

CE FCC

Applications

Electric Meter Reading, Gas Meter Reading, Water Meter Reading, Production Monitoring, Facility Monitoring, Flood Monitoring, Level Monitoring, Machine Health Monitoring, Safety Monitoring

LoRaWAN communication	Visible light measurement
10-Year battery	IP68

complies to Working temperature Dimensions

LoRaWAN communication Logic detecting or Pulse counting 10-Year battery IP68

SPECIFICATION

WSLRW-AL-HI JPG

Sensor technology	Light sensor with Precision Optical	SF Factors
	Filtering to Match Human Eye, Rejects > 99% (typ) of IR	Antenna
Measurements range	0.01 lux to 83 k lux 23-Bit Effective resolution	Power Supply
Linearity	2% of Reading value for > 40 Lux, 5% of Reading value when the light is less than 40 lux	RF Frequency Power
Temperature drift	0.01%/℃ when light intensity is about	
iemperature unit	2000 lux	Protocol
Operating Temperature Range	_40∼85℃	Data sending modes
		RF Module

	SF7~SF12
	Internal Antenna 2 dbi
ly	Primary batteries 02 x AA size 1.5VDC (battery not included)
cy and	860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
	LoRaWAN Class A V1.0.3
9	interval time, alarm and manually triggering by magnetic key
	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
	-40 ${\sim}60^{\circ}\text{C}$ (with AA L91 Energizer®)
	H106xW73xD42

Digital Inputs	2-channel dry contact or low voltage	SF Factors	SF7~SF12
	Antenna	Internal Antenna 2.0 dbi	
Operation	Detecting status or Pulse counting (max 1 kHz)	Electrical connection	Shielded cable 2m length with PG9 cable gland
VERSION	DI-12 (Low-speed digital input)	connection	Primary batteries 02 x AA size
Input	2-Digital channel inputs with dry-		1.5VDC (battery not included)
Input	contact or voltage input (max 3.3VDC)		860~930MHz, 14~20 dBm,
Functions	Logic Detecting or Pulse Counting		configurable for zones: EU868, IN865, RU864, KR920, AS923,
Logic Detecting: 2 channels,		AU915, US915	
recommended minimum interval time between 02 statuses is 5 seconds.		Protocol	LoRaWAN Class A V1.0.3
	Pulse Counting: 1 channel only, max	Data sending modes	interval time, alarm and manually triggering by magnetic key
frequency 2Hz, minimum Pulse width (low or high) is 200mS, counter is uint32 type.		RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US),
VERSION	DI-12H (High-speed digital input)		ARIB STD-T108 (Japan)
2-Digital channel inputs with dry- Input contact or voltage input (max	Working temperature	-40~60°C (with AA L91 Energizer®)	
3.3VDC)			









LoRaWAN 0-20mA CURRENT INPUT SENSOR WSLRW-MA

WSLRW-MA

Node

CE FCC

Applications

LoRaWAN Current Input

Process Monitoring, Safety Monitoring



LoRaWAN

LoRaWAN Indoor Gateway

Applications

Automatic Ventilation System, Condition Based Monitoring, Energy Monitoring, Facility Monitoring, Fuel Monitoring, Gas Leakage Detection, Indoor Air Quality Monitor, Machine Health Monitoring, Odor Monitorin...

Connect to any LoRaWAN sensors	Various Internet connections
Support all Network Server Software	POE Feature

LoRaWAN Ť with Power Supply to extern Esternal Pos

WSLRW-MA-H1 PNG

LoRaWAN communication	10-Year battery
Pre-calibrated	IP67/IP68

SPECIFICATION

LoRaWAN Specification	LoRaWAN 1.0.3	Standard Interfaces	1 WAN RJ45 10/ 100M passive PoE capability
Frequency Band	Select 863~870MHz/ 902~928MHz		slot (2FF), 1 DC jack in block
Number of Channels	Up to 8 concurrent channels for LoRa transmission	Optional Wi-Fi	802.11b/g/n, 1x1, 2.40
LoRa Transmit		Optional 4G LTE	LTE Cat 4 or Cat M1/N
Power	0.5W (up to 27 dBm)		1 x external LoRa ante option antennas are 1
LoRa Receive Sensitivity	Down to -142 dBm (conducted) Antenna Type		antenna for LTE, 1 x e.
LoRa Software	Standard and LRR Actility	Operating	
		Temperature	-10~55℃
		Storage Temperature	-20∼60°C
		Power Supply	DC 12 V/1.5 A-Power 10~30V 3-Pin Connect

Standard Interfaces	1 WAN RJ45 10/ 100Mbps (w/ passive PoE capability), 1 SIM card slot (2FF), 1 DC jack in/ 1 terminal block
Optional Wi-Fi	802.11b/g/n, 1x1, 2.4GHz
Optional 4G LTE	LTE Cat 4 or Cat M1/NB2
Antenna Type	1 x external LoRa antenna, and option antennas are 1 x External antenna for LTE, 1 x external Wi-Fi antenna
Operating Temperature	-10∼55℃
Storage Temperature	-20∼60℃
Power Supply	DC 12 V/1.5 A-Power Adaptor/ DC 10~30V 3-Pin Connector Power supply/ Passive PoE 10~30V
Housing	Profile Aluminum, IP20
Dimensions	L:122 x W:135 x H:36mm

SPECIFICATION

Measuring range	0~20mA	SF Factors	SF7~SF12
Accuracy	0.05% of span	Antenna	Internal Antenna 2.0 dbi
Resolution	1/3000	Battery	02 x AA size 1.5VDC (battery not
Permissible input	Max 60 mA		included)
current	Max oo mix		860~930MHz, 14~20dBm,
Permissible voltage	Max 2.5V (between AI+ and AI-)	RF Frequency and Power	configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Temperature drift	< 50ppm		
Sensor port M12-Male, 4-pin A-coding (IP67 connector version) or 2m cable (IP68 version)			
	Protocol	LoRaWAN, class A	
		Configuration	via Downlink or Offline tool (free software)
	Data sending modes	Interval time and when alarm occurred	
		Certification	CE mark, FCC

Working

temperature









-40~60°C (with AA L91 Energizer®)

LORAWAN OXYGEN SENSOR WSLRW-02 WSLRW-02

LoRaWAN PROCESS PRESSURE SENSOR WSLRW-PPS

CE FCC

Applications

LoRaWAN Process

Water Pressure Pipeline Monitor, Process Monitoring, Smart Irrigation, Fuel Monitoring, Level Monitoring, Safety Monitoring

Pressure Sensor



LoRaWAN communication

Not affected by other gases

WSLRW-02-H1.PG

LoRaWAN

LoRaWAN Oxygen Sensor

CE FCC

Applications

Ambient Air Quality Monitor, Indoor Air Quality Monitor, Gas Analyzing, Warehouse Monitoring

5-10 years battery

Not affected by temperature changes



WSLRW-PPS-H1 PNG

LoRaWAN communication	10-Year battery
High Accuracy & Stable	IP68

SPECIFICATION

Measuring range/ Max overload	0~25% O ₂ / 30% O ₂	SF Factors
Accuracy/	±0.25% O ₂ / 0.01	Antenna
Resolution	±0.25% O ₂ / 0.01	Battery
Long term output drift	< 5% of reading per year	
Interference gases for version O2-01	CO_2 , not used in the environment with $CO_2 > 25\%$ (1% of CO_2 will	RF Frequency Power
	increase 0.3% of O2 output)	Protocol
Interference gases	Virtually no influence from CO_2 , CO , H_2S , NO , H_2 . Only influenced by NO_2	Data sending modes
for version O2-02	(1% NO ₂ will increase 0.6% of O_2 output)	RF Module complies to
Working Pressure	1013hPa ±20%	
Working Temperature	-10~50°C for O2-02 and -30~50°C for O2-01	Vietnam Type Approval
Storage		Working
Temperature	0~20℃	temperature
Working Humidity	0-99% RH non-condensation for O2-02 and 5~95%, non-condensation for O2-01	

	SF7~SF12
	Internal Antenna 2.0 dbi
	02 x AA size 1.5VDC, battery not included
/ and	860~930MHz, 14~20dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
	LoRaWAN, class A
	Interval time and when alarm occurred
	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
	TBA soon
	-40~60°C (with AA L91 Energizer®)

SPECIFICATION

Sensor	Advanced Piezo technology	SF Factors	SF7~SF12
Measurement	Select from -1~1000 bar Gage/	Antenna	Internal Antenna 2.0 dbi
range	Absolute/ Sealed Gage	Battery	02 x AA size 1.5VDC, battery not
Over pressure protection	1.5 x span	Dationy	included
•	0.05% -= 0.5% -f -= -= - + 0.0%		860~930MHz, 14~20dBm,
Accuracy & Stability	, 0.25% or 0.5% of span, < 0.2% span/ year	RF Frequency and Power	configurable for zones: EU868, IN865, RU864, KR920, AS923,
Wetted parts	304SS/316SS		AU915, US915
Measuring Fluids	Any fluid which is workable with	Protocol	LoRaWAN, class A
weasuring r laids	materials 304SS/316SS	Data sending	Interval time and when alarm
-20~80°C	modes	occurred	
temperature	20 00 0	Configuration	via Downlink messages or Off-line
Compensation	-10∼50℃	Comgaration	tool (Software is free)
temperature		RF Module	ETSI EN 300 220, EN 303 204
Process connection	Standard G 1/4 or Others (consult factory)	complies to	(Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
		Working temperature	-40~60°C (with AA L91 Energizer®)







WSLRW-PT100

CE FCC

Applications

LoRaWAN PT100

Temperature Sensor

Temperature Monitoring, Process Monitoring, Safety Monitoring

10-Year battery

Outdoor IP67

LoRaWAN SOUND LEVEL SENSOR WSLRW-SL

1040

LoRaWAN Sound Level Sensor

LoRaWAN

CE FCC

Ambient Air Quality Monitor, Facility Monitoring, Machine Health Monitoring, Safety Monitoring



Molitikarita tao	
Wide frequency range	LoRaWAN Communication
10-Year battery	For Outdoor

External Power Sup

LoRaWAN communication

Pre-calibrated

LoRaWAN

.

7

WSLRW-P7100-H1 PNG

SPECIFICATION

Input

Accuracy

connector

Sensor port

PT100 Temperature Sensor	SF Factors	SF7~SF12
0.05%	Antenna	Internal Antenna 2.0 dbi
PG9 Connector	Battery	02 x AA size 1.5, battery not included
	RF Frequency and Power	860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
	Protocol	LoRaWAN, class A
	Data sending modes	Interval time and when alarm occurred
	RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
	Vietnam Type Approval	
	Working temperature	-15∼60℃ (using L91 Energizer® battery)

SPECIFICATION

LoRaWAN

10-Yea

Measuring range	30~130dB(A)	SF Factors	SF7~SF12
Frequency range	20~12,500Hz	Antenna	Internal Antenna 2.0dbi
Resolution	0.1dB(A)		02 x AA size 1.5VDC, battery not
Accuracy	±0.5dB(A) at 94dB(A) and 1kHz	Battery	included OR solar panel (buy separately) with 2 x Panasonic®
Working temperature	-20∼60°C	Ballery	Eneloop™ standard batteries (customer to supply)
	RF Frequency and Power	860~930MHz, 14~20dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915	
		Protocol	LoRaWAN Class A V1.0.3
		Data sending modes	interval time, and manually triggering by magnetic key
		RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
		Vietnam Type Approval	
		Working temperature	-40~60°C (with AA L91 Energizer®)











LoRaWAN Thermocouple **Temperature Sensor**

CE FCC

Applications Temperature Monitoring, Process Monitoring,

Safety Monitoring

WSLRW-ULA LoRaWAN ULTRASONIC LEVEL SENSOR FOR TRASH BIN WSLRW-ULA



LoRaWAN communication

High Accuracy & Stable

LoRaWAN Ultrasonic Level Sensor for Trash bin

Applications

Waste Management, Process Monitoring, Safety Monitoring, Infrastructure Monitoring

5-10 years battery

IP68 Outdoor

WSLRW-TCK-R1 PNG

LoRaWAN communication	10-Year battery
Pre-calibrated	Outdoor IP67

SPECIFICATION

Input	Thermocouple Temperature Sensor Type K, T, B etc.
Accuracy	0.05%
Sensor port connector	PG9 Connector

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 and when alarm occurred
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Vietnam Type Approval	
Working temperature	-15~60°C (using L91 Energizer® battery)

SPECIFICATION

WSLRW-ULA-H1 PNG

Sensor	Ultrasonic sensor 40kHz	SF Factors	SF7~SF12
Measurement range	3~450cm	Antenna	Internal Antenna 2.0 dbi
Accuracy	±(1cm + 0.5% reading)	Battery	02 x AA size 1.5, battery not
Resolutions	1mm OR 1‱		included
Alarm setting	setting the alarm threshold for calculated value	RF Frequency and Power	860~930MHz, 14~20dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Working	-15~60°C/ 0~99% RH (non- / condensing)		
temperature/humidity		Protocol	LoRaWAN, class A
Storage temperature/humidity	-25~80°C/ 0~99% RH (non- ' condensing)	Data sending modes	Interval time and when alarm occurred
Transducer material	Ceramic	RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
		Electronics working temperature	-40~60°C (using L91 Energizer® battery)
		Housing	H154xW68xD43, Polycarbonate, IP68









LoRaWAN 7

LoRaWAN Ultrasonic Level Sensor for Trash Bin

CE FCC

Applications

Angle-adjustable mounting bracket

LoRaWAN communication	5-10 years battery

Waste Management, Process Monitoring, Safety Monitoring, Infrastructure Monitoring

RASONIC LEVEL SENSOR VSLRW-ULC

LoRaWAN Ultrasonic Liquid Level Sensor

CE FCC

WSLRW-ULC

Applications

Flood Monitoring, Level Monitoring, Process Monitoring, Safety Monitoring, Smart Irrigation, Infrastructure Monitoring

HISTINGCOST PRO	
LoRaWAN communication	10-Year battery
High Accuracy & Stable	IP68 Outdoor

SPECIFICATION

WSLRW-ULS-H1 PNG

Measurement range 300~4500mm Anter Resolution & accuracy 1.0mm, ±10mm Batt Sensor sampling rate configurable from 10s up to 3600s RF If Pow Alarm setting setting the alarm threshold for esclulated value setting the alarm threshold for			
range 300~4500mm Aute Resolution & accuracy 1.0mm, ±10mm Batt Sensor sampling rate configurable from 10s up to 3600s RF I Pow Alarm setting setting the alarm threshold for calculated value Pow	Sensor	Ultrasonic sensor	SF Facto
Accuracy 1.0mm, ±10mm accuracy Sensor sampling rate configurable from 10s up to 3600s RF I Pow Alarm setting calculated value		300~4500mm	Antenna
Alarm setting setting the alarm threshold for calculated value		1.0mm, ±10mm	Battery
Alarm setting calculated value		configurable from 10s up to 3600s	RF Frequ Power
calculated value Prot	Alarm setting		
	Ŭ	calculated value	Protocol

High Accuracy & Stable

S	F Factors	SF7~SF12
A	ntenna	Internal Antenna 2.0 dbi
B	attery	02 x AA size 1.5, battery not included
	F Frequency and ower	860~930MHz, 14~20dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
P	rotocol	LoRaWAN® Class A
	ata sending odes	Interval time and when alarm occurred
	F Module omplies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
	etnam Type pproval	
	′orking mperature	-15~60°C (using L91 Energizer® battery)

SPECIFICATION

Sensor	Ultrasonic sensor	SF factors	SF7~SF12
Measurement range	250~5500mm (Non-flat surface will	Antenna	Internal Antenna 2.0dbi
	give shorter range in actual condition)	Battery	02 x AA size 1.5VDC, battery not included
Resolution	±5.0mm		860~930MHz, 14~20dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923,
Accuracy	±10mm + S*0.3% (with S is the measured value)		
Sensor sampling			AU915, US915
rate		Protocol	LoRaWAN® Class A
Alarm setting	setting the alarm threshold for calculated value	Data sending modes	Interval time and when alarm occurred
		Configuration	via downlink or offline cable (software is free)
		RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
		Working temperature	-15~60°C (with AA L91 Energizer®)











LoRaWAN communication

10kHz Bandwidth

WSLRW-V1A-H1.PRG

LoRaWAN

LoRaWAN Piezo-Electric 10kHz Vibration Sensor

<u>CE</u> FCC

Applications

Condition Based Monitoring, Machine Health Monitoring, Safety Monitoring, Vibration Monitoring

10-Year battery

High Performance Piezo-electric sensor

HEAVY DUTY LORAWAN NODE WITH DIGITAL INPUT WSLRWAL-DI

WSLRWAL-DI

WSLRWAL-DI-H1_JPG

LoRaWAN communication	Heavy Duty Design
5-10 years battery	Plug & Play

WSLRWAL-DI

Applications

LoRaWAN Heavy Duty

Process Monitoring, Safety Monitoring, Energy Monitoring, Electric Meter Reading, Gas Meter Reading, Water Meter Reading, Production Monitoring

Digital Input Node

SPECIFICATION

	(* Note: All below values are typical at +24°C, 80Hz)	SF Factors
	. ,	Antenna
Sensor technology	Hermetically Sealed, Piezo-Ceramic Crystal, Shear Mode	Battery
8-Parameter Measurement	Acceleration Peak, Velocity RMS & Peak, Displacement RMS & Peak, Frequency, Temperature, and Crest Factor	RF Frequency Power
Acceleration Range & Shock Limit (g)	±25, 10000	Protocol
Acceleration resolution	6.1mg	Data sending modes
Velocity range and resolution	0~50mm/s, 0.1mm/s	RF Module complies to
Displacement range and resolution	±5000μm, 1μm	Working temperature
Frequency Response and Resonant (Hz)	2~10000, > 30000	Dimensions & weight
Frequency resolution	2~10000Hz, 1Hz	

	SF7~SF12
	Internal Antenna 2.0dbi
	02 x AA size 1.5, battery not included
cy and	860~930MHz, 14~20dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
	LoRaWAN® Class A V1.0.3
g	Interval time and when alarm occurred
	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
	-40 \sim 60°C (using Energizer® Lithium Ultimate AA battery)
& Net-	H106xW73xD42, 190g

Digital Inputs	2-channel dry contact or low voltage (≤3.3V)	Protocol	LoRaWAN® Class A, V1.0.3
		SF Factors	SF7~SF12
Operation	Detecting status or Pulse counting (max 1kHz)	Antenna	External Antenna
VERSION	DI-12 (Low-speed digital input)	DE Fraguenau and	860~930MHz, 14~20dBm,
Input	2-Digital channel inputs with dry- contact or voltage input (max 3.3VDC)	RF Frequency and Power	configurable for zones: EU868, IN865, RU864, KR920, AS923, AS923-2, AU915, US915
Functions	Logic Detecting or Pulse Counting	Data sending modes	interval time, or when status changes, or manually triggered by a
	Logic Detecting: 2 channels, recommended minimum interval time between 02 statuses is 5 seconds.		magnetic key.
		Configuration	via Downlink or offline USB cable (PC software is supplied for free)
Pulse Counting: 1 channel only, max frequency 2Hz, minimum Pulse width (low or high) is 200mS, counter is uint32 type.		Battery	01 x C type LiSOCl ₂ 3.6V battery, not included (recommend SAFT LS26500)
VERSION	DI-12H (High-speed digital input)	Housing	Cast aluminum, IP66
Input	2-Digital channel inputs with dry- contact or voltage input (max 3.3VDC)	Applicable Zones	Safe areas











LoRaWAN Ex APPROVED FLAMMABLE GAS SENSOR WSLRWEX-GHC

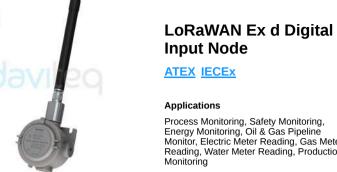
ATEX IECEX

Applications

LoRaWAN Ex d NDIR

Flammable Gas Sensor

Gas Leakage Detection, Ambient Air Quality Monitor, Indoor Air Quality Monitor, Gas Analyzing, Warehouse Monitoring



LoRaWAN NODE WITH DIGITAL INPUTS WSLRWEX-DI

WSLRWE

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LoRaWAN

еконн.ма	Energy Monitoring, Oil & Gas Pipeline Monitor, Electric Meter Reading, Gas Meter Reading, Water Meter Reading, Production Monitoring	
LoRaWAN communication	For hazardous Zone 1-2-21-22	
5-10 years battery	Plug & Play	

LoRaWAN

WSLRWEX-BHC-H1 JPG

LoRaWAN communication	Durable Sensor with 10 year life span
5-10 years battery (GHC-01 and GHC-02)	Ex d Zones 1-2-21-22

SPECIFICATION

Digital Inputs 2-channel dry contact or low voltage	Communication	LoRaWAN® Class A, V1.0.3		
9	(≤3.3V)		SF7~SF12	
Operation	Detecting status or Pulse counting (max 1kHz)	Antenna	External Antenna	
VERSION	DI-12 (Low-speed digital input)	DE En manuel	860~930MHz, 14~20dBm,	
Input	2-Digital channel inputs with dry- contact or voltage input (max 3.3VDC)	RF Frequency and Power	configurable for zones: EU868, IN865, RU864, KR920, AS923, AS923-2, AU915, US915	
Functions	Logic Detecting or Pulse Counting	ic Detecting or Bulso Counting Data sending		
Logic Detecting: 2 channels, recommended minimum interval time between 02 statuses is 5 seconds.	modes	changes, or manually triggered by a magnetic key.		
	Configuration	via Downlink or offline USB cable (PC software is supplied for free)		
	Pulse Counting: 1 channel only, max frequency 2Hz, minimum Pulse width (low or high) is 200mS, counter is uint32 type.	Battery	01 x C type LiSOCl ₂ 3.6V battery, not included (recommend SAFT LS26500)	
VERSION	DI-12H (High-speed digital input)	Housing	Cast aluminum, IP66	
Input	2-Digital channel inputs with dry- contact or voltage input (max 3.3VDC)	Ex Certification	IMQ 14 ATEX 005 X, TÜV CY 18 ATEX 0206158 X and IECEX DEK 15.0048X	

SPECIFICATION

Measurement	Daviteq High-performance and Ultra-	SF factors	SF7~SF12
technology	low power NDIR sensor, 10 years sensor life span.		2 dbi external antenna N-type
0~ Measuring range C ₂	equivalent to $0 \sim 5\%$ vol. (CH ₄). For C ₂ H ₄ , C ₂ H ₆ , C ₃ H ₈ , C ₄ H ₁₀ , C ₂ H ₂ gas	RF power and frequency	860~930MHz, 14~20dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AS923-2, AU915, US915
	application please contact us	Protocol	LoRaWAN® Class A, V1.0.3
Resolution Response time (T90)	0.1% LEL/ < 40 seconds	Data sending mode	cyclically, or when an alarm occurs or activated by a magnetic key. Suggest up to 48 messages per day.
Measurement variation	for CH ₄ it is $\pm 0.1\%$ vol. or $\pm 5\%$ of reading (whichever is greater) in the $20{\sim}25^\circ$ C temperature range	RF module compliant	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (USA), ARIB STD-T108 (Japan)
Temperature Humidity	-40~60°C/ 0~98% RH, non- condensing/ 80kPa~120kPa	Configuration	via Downlink or via USB cable (PC software provided free of charge)
Operating pressure	sure containing could a read a	Power	01 x battery type C 3.6V LISOCI ₂ (recommended SAFT LS26500) for GHC-01 and GHC-02, 12/24VDC external power supply for GHC-03
		Equipment housing	Aluminum alloy, powder coated, IP66, Wall mount installation





PRODUCT PAGE







WSLRWEICPPS-H1 JPG

SPECIFICATION

Advanced Piezo technology

Select from -1~1000 bar Gage/

Absolute/ Sealed Gage (Over

pressure protection: 2 x span)

-40~130°C (compensation in

316SS, Any fluid which is workable

Accuracy & Stability 0.2% of span, < 0.1% span/ year

-10~80°C)

Process connection $\frac{1/2"}{.}$ NPT-male as standard, others

with materials 316SS

please consult factory

Sensor

range

Measurement

Wetted parts &

Measuring Fluids

Process Working

temperature

LoRaWAN

LoRaWAN Ex d Process
Pressure Sensor

LoRaWAN® Class A, V1.0.3

External Antenna 2.0 dbi

860~930MHz, 14~20dBm,

AS923-2, AU915, US915

interval time, or when status

included (recommend SAFT

Cast aluminum, IP66

changes, or manually triggered by a

via Downlink or offline USB cable

(PC software is supplied for free)

IMQ 14 ATEX 005 X, TÜV CY 18

ATEX 0206158 X and IECEX DEK

01 x C type LiSOCl₂ 3.6V battery, not

IN865, RU864, KR920, AS923,

SE7~SE12

RF Frequency and configurable for zones: EU868,

magnetic key.

LS26500)

15.0048X

ATEX IECEx

Applications

Oil & Gas Pipeline Monitor, Process Monitoring, Safety Monitoring



LoRaWAN communication

High Precision Tilt Measurment

LORAWAN TILT SENSOR

WSLRW-AG

WSLRW-AG-HLUPG

CE FCC	

Applications

WSLRW-AG

Facility Monitoring, Flood Monitoring, Infrastructure Monitoring, Level Monitoring, Machine Health Monitoring, Safety Monitoring, Tilt Monitoring

10-Year battery

Solar Powered for Fast Sampling Rate

LoRaWAN Tilt Sensor

LoRaWAN Communication	10-Year battery
High Accuracy & Stable	Ex d Zones 1-2-21-22

Protocol

Antenna

Power

modes

Battery

Housing

Ex Certification

Data sending

Configuration

SE Factors

	Built-in advanced accelerometer to	SF Factors	SF7~SF12	
Tilt Sensor deliver tilt angle measurement of XYZ for AG-01 version, XY for AG- 03 version		Antenna	Internal Antenna 2 dbi or external antenna	
Tilt Measurement range	±90° for AG-01 version ±30° for AG-03 version	ersion		
Tilt Resolution	±0.01° for AG-01 version ±0.001° for AG-03 version	r ower ouppry	Solar Panel with Rechargeable batteries 2 x AA Panasonic® Eneloop™ Standard (not included)	
Tilt Repeatability	±0.075° for AG-01 version ±0.010° for AG-03 version	RF Frequency and	860~930MHz, 14~20 dBm, configurable for zones: EU868,	
Tilt Temperature Drift			IN865, RU864, KR920, AS923, AU915, US915	
Sensor sampling	sor sampling 1Hz max (recommend for Solar		LoRaWAN Class A V1.0.3	
rate	powered version)	Data sending modes	interval time, alarm (from FW5) and manually triggering by magnetic key	
Chool: Dotostion	Yes, max 2G threshold (only available in some FW version.	Alarm function	, ,	
	please consult us)	Alarm function	from FW5, for X-axis only	
preuse consult us)		RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)	
		Vietnam Type Approval		







WSLRW-CO2

CE FCC

Applications

Monitoring

LoRaWAN Carbon

Ambient Air Quality Monitor, Indoor Air Quality Monitor, Gas Analyzing, Warehouse

Dioxide Sensor





LORaWAN PRECISION FUEL LEVEL SENSOR WSLRW-CAP10

LoRaWAN communication

High Precision 0.1%

WSLRW-GAP10-H1_JPG

-

LoRaWAN Precision **Fuel Level Sensor** CE FCC

Applications

Energy Monitoring, Fuel Monitoring, Process Monitoring, Smart Irrigation, Vehicle Tracking

5-Year battery

Easy to Install



LoRaWAN communication	5-10 years battery
High Accuracy & Stable	Measure other parameters

SPECIFICATION

	SF Factors	SF7~SF12	
Range (mm)	can be extended up to 4000	Antenna	Internal Antenna 2.0 dbi
Accuracy/ Resolution/ Repeatability	±0.1% of span/ 0.1%/ ±0.1% of span	Battery	02 x AA size 1.5VDC, battery not included
Thermal drift	< +0.03% of span per 10°C	RF Frequency and	860~930MHz, 14~20 dBm,
Connector	M12 male, 4-pin, Coding A	Power	configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Sensor MTBF	More than 10 years		
Sensor wetted	Aluminum and engineering plastic	Protocol	LoRaWAN, class A
materials	Data sending	Interval time and when alarm	
Operating		modes	occurred
Temperature & Humidity Range	-40∼85℃, 0~100% RH	RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US)
Sensor rating	IP67, outdoor	complies to	ARIB STD-T108 (Japan)
Certification	CE-Marking per EN61236-1 (with test report)	Working temperature	-40~60°C (using Energizer® Lithiu Ultimate AA battery)
		Dimensions and Net-weight	H140xW73xD42, 250g (LoRaWAN Device only)

	011 0112
	Internal Antenna 2.0 dbi
	02 x AA size 1.5VDC, battery not included
nd	860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
	LoRaWAN, class A
	Interval time and when alarm occurred
	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
	-40 \sim 60°C (using Energizer® Lithium Ultimate AA battery)
	H140xW73xD42, 250g (LoRaWAN Device only)

SPECIFICATION

CO ₂ Sensor technology	NDIR sensor	SF Factor
CO ₂	0~5000 ppm or 10000/ 1ppm/	Antenna
range/resolution/accuracy	r (±30ppm + 3% reading)	Battery
Repeatability	\pm 30ppm + 3% reading (in 0~50°C, after zeroing at 25°C)	,
Temperature range/ resolution/ accuracy	-40~80°C/ 0.1°C/ ±0.3°C in range 0~50°C	RF Frequency and Power
Humidity range/	0~100% RH/ 0.1% RH/ ±1.5%	Protocol
resolution/ accuracy	RH (in range 0~80% RH)	Data sending
Barometric Pressure	300~1200 mbar/ 0.01 mbar/	modes
range/ resolution/ accuracy	±4 mbar in range -20∼85℃	RF Module complies to
Sensor housing material/	SS316/ SS304/ for Indoor use	complies to
Rating		Vietnam Type
		Approval
		Working

SF Factor	SF7~SF12
Antenna	Internal Antenna 2.0 dbi
Battery	02 x AA size 1.5VDC, battery not included
RF Frequency and Power	860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN, class A
Data sending modes	Interval time and when alarm occurred
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Vietnam Type Approval	TBA soon
Working temperature	-40~60°C (with AA L91 Energizer®)

LoRaWAN











WSLRW-G4

LoRaWAN AMMONIA TOILET SENSOR WSLRW-G4F-NH3

WSLRW-G4F-NH3



LoRaWAN

Detecting Sensor CE FCC

LoRaWAN Gas

Applications

Ambient Air Quality Monitor, Indoor Air Quality Monitor, Gas Analyzing, Warehouse Monitoring, Gas Leakage Detection



WSLRW-G4F-NH3-H1_JPG

LoRaWAN Toilet O	dor
Sensor	

Applications Indoor Air Quality Monitor, Gas Analyzing, Warehouse Monitoring, Odor Monitoring



High Sensitive Odor Sensor Anti-tampering LoRaWAN communication 10-Year battery

SPECIFICATION

WSLRW-G4-H1_PG

C	Select gas sensor	CO, NO, NO ₂ , H ₂ S, NH ₃ , O ₂ , O ₃ , SO ₂ , Cl ₂ , HCHO etc.	SF Factors	SF7~SF12
			Antenna	Internal Anter
	Gas sensor type and specification	List of compatible gas sensors and specification	Battery	02 x AA size included
	Sensor housing/ Rating	SS316/SS304 housing with 316SS sintered filter/ for Indoor use (buy the optional accessory rain-guard for outdoor installation)	RF Frequency and Power	860~930MHz configurable IN865, RU86 AU915, US91
			Protocol	LoRaWAN, c
			Data sending modes	Interval time occurred
			Configuration	via Downlink (software is fi

Internal Antenna 2.0 dbi
02 x AA size 1.5VDC, battery not included
860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
LoRaWAN, class A
Interval time and when alarm occurred
via Downlink or Offline cable (software is free)
ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
-40~60°C (with AA L91 Energizer®)

_	High sensitive electrochemical type	SP factors	SF7~SF12
Sensor type	sensor, built-in auto-sampling mechanism	Antenna	Internal Antenna 2.0 dbi
NH₃ range	0~100 ppm (or equivalent	Battery	02 x AA size 1.5VDC, battery not included
	0~285.7ppm H₂S)		860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
NH ₃ tolerance limit	200ppm	RF Frequency and	
Repeatability/ Resolution/ Stability	< 3% of reading/ 0.1 ppm/ < 1% of reading/month	Power	
per month	reading/month	Protocol	LoRaWAN, class A, V1.0.3
Zero-point stability	0~0.15ppm	Data sending	Interval time and when the alarm
Ambient pressure	101.3kPa ±10%	modes	occurred
Sensor life	2 years, in clean air	Configuration	via Downlink or Offline cable (software is free)
Working temperature	-10~50°C		complies to ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47
Working humidity	g humidity 15~90% RH	RF Module	Part15 (US), ARIB STD-T108 (Japan)
		Working temperature	-40~60°C (with AA L91 Energizer®)













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