LoRaWAN Ex d Approved Pt100 Sensor

Smart Facility, Smart Factory

SKU: WSLRWEX-PT100





Safe Zone

🕢 Hazardous Zones

WSLRWEX-PT100 is an Ex d approved LoRaWAN Pt100 sensor, it integrates the Pt100 sensor with various process connection and size. The device is used in Hazardous Zone 1-2. With Ultra-low-power design and smart firmware allow the complete Wireless and Sensor package to run on a single battery for 5 years or more with 15 minutes update. It supports global frequency bands EU868, IN865, RU864, KR920, AS923, AS923-2, AU915, US915. The sensor can work perfectly with any LoRaWAN Gateway and any Network Server on the market.

Applications

Temperature Monitoring, Process Monitoring

Notes For Applications

LoRaWAN communication Support LoRaWAN Class A, connect to any LoRaWAN gateway on the market

High Accuracy Pt100 Sensor High Accuracy Class A and Class B Pt100 Sensor

> 5-10 years Battery life

 Ultra low power sensor technology allow 5-10 years battery life with a single battery

Ex d Zones 1-2-21-22 Ex d approved for Hazardous Zones 1-2-21-22



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Created date: Sep-09-2024



Specification

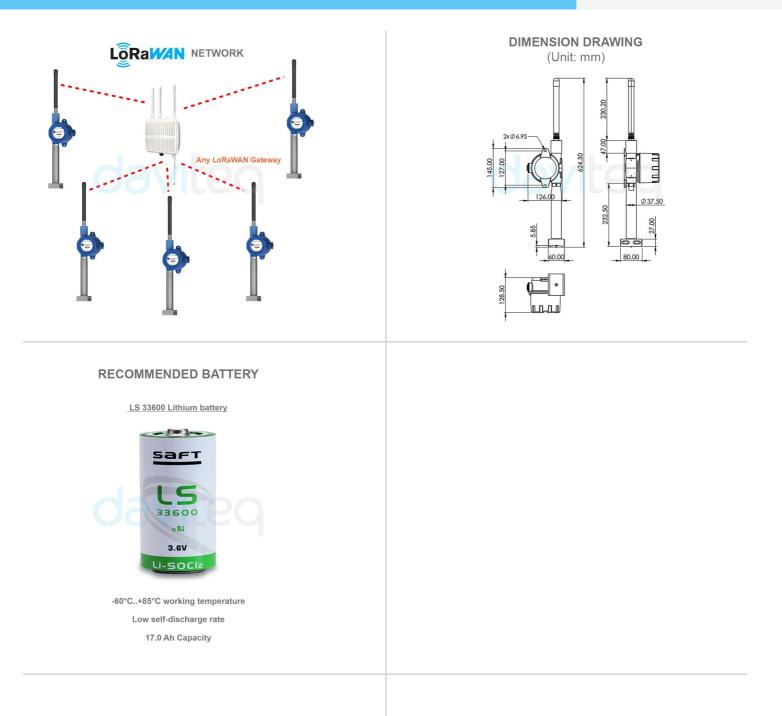
Macaurament technology	
Measurement technology	Ultra-low-power Pt100 measurement
Integrated Sensor	4-wire Class B or Class A
Measurement Range	-200 + 593°C
Process connection	1/2"NPT male as standard, others as request
Sensor material	316SST
Sensor diameter	6mm
Sensor length	200mm as standard
Accessories	External mounting clamp, thermowells
COMMUNICATION	
SF Factors	SF7~SF12
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
Hazard Protection Label	ATEX II 2G Ex db IIC T5/T6 Gb and ATEX II 2D Ex tb IIIC T100/T85°C Db
Compatible	ATEX 2014/34/EU/ Standard IEC-EN60079-0 IEC-EN60079-1 IEC-EN60079-31
Areas of application	Zones 1 & 2 gas hazardous areas, Zones 21 & 22 hazardous areas containing flammable dust
Working temperature	-40 ~ 85°C
Size Net weight	H202xW126xD128 (not including antenna)/ ≈1500g (without battery)
Mounting	Sensor direct mount and Wall/Pioe mounting bracket

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Ordering Information

ITEM CODE	DESCRIPTIONS
WSLRWEX-PT100-02	LORAWAN PT100 SENSOR, CLASS A, EX D APPROVED ZONES 1-2-21-22, BATTERY 3.6V, IP67, INCLUDED PIPE MOUNT CLAMP 3" TO 8", ALL FREQUENCY BANDS 860-930MHZ