

LoRaWAN 26GHz Radar Level Sensor WSLRW-RD26

SKU: WSLRW-RD26

Doc No: WSLRW-RD26-DS-EN-10

LoRaWAN RADAR 26GHZ RADAR LEVEL SENSOR WSLRW-RD26



WSLRW-RD26-H1.PNG

INSTALLED ON STEEL GRAIN SILOS



WSLRW-RD26-H2.PNG

Introduction

WSLRW-RD26 is K-band radar level sensor with pulse technology for Solid or Liquid measurement. With optional air purging kit, it can be used in high dust environment like cement, grain, powder... It can measure up to 70m range with small beam angle 8 degree. The wireless portion is LoRaWAN technology allows long range transmission at ultra-low power consumption. It will connect wirelessly to any standard LoRaWAN gateway on the market. It can be configured the operation parameters like data sending interval, health check cycle... The complete set of wireless radar sensor can be powered by 12 x AA 1.5V, can last up to 10 years (depends on interval time).

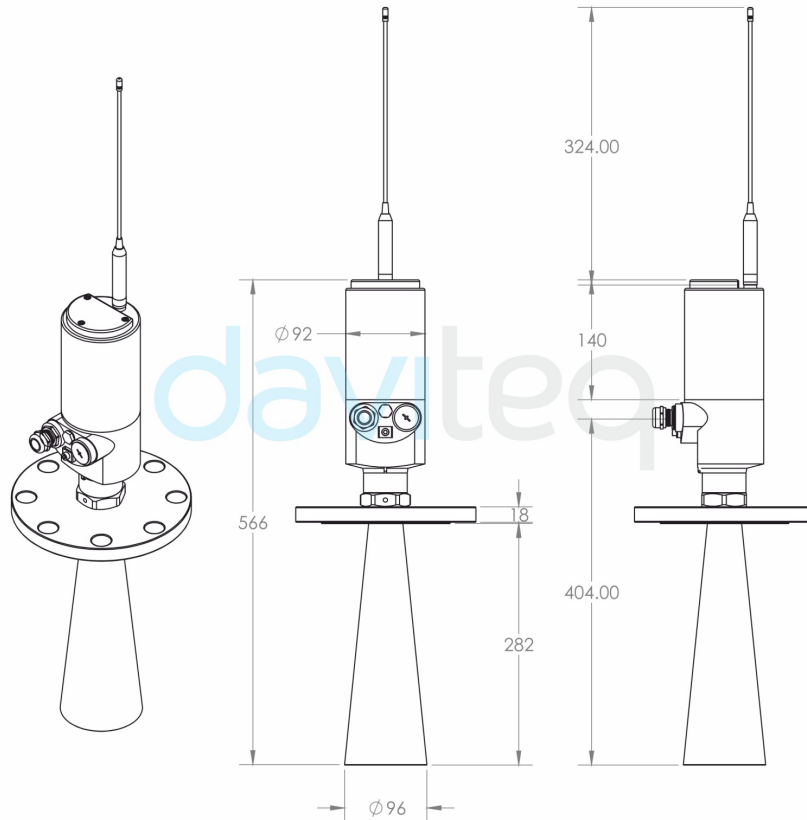
- Measuring any liquid or solid;
- Range up to 70m;
- Support LoRaWAN connectivity;
- Ultra-low power with 10 years battery;
- Plug & Play.

Typical Applications

- Level measurement in Tank;
- Level measurement in Silo;
- Level measurement for Liquid or Solid;

Dimension Drawings

DIMENSION DRAWING OF WSLRW-RD26



WSLRW-RD26-H4.PNG

Specification

SENSOR SPECIFICATION	
Sensor technology	26 GHz Pulse radar
Measurement range	30, 70m
Resolution	1.0 mm
Accuracy	+/- 5.0 mm
Beam angle	8 degree
Air purging	Optional
Process temperature	-40 .. + 85oC standard, +120 oC optional
Process pressure	-1 .. + 4 barg
Ambient working temperature	-40 .. + 85 oC
Ambient working humidity	0 .. 95% RH, non-condensing
LORAWAN SPECIFICATION	
Data rate	250bps .. 5470bps

Antenna	Antenna 2.67 dBi
Battery	12 x AA size 1.5VDC, battery not included
RF Frequency and Power	860..930 MHz, +14 .. +20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN Class A
Data sending modes	interval time, alarm occurred and manually triggering by magnetic key. Recommend max 24 messages per day.
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Vietnam Type Approval	TBA
Ambient temperature	-40oC..+60oC (with AA L91 Energizer)
Dimensions	220x220x450 (without antenna)
Net-weight	< 10 kgs
Housing	Aluminum + Polycarbonate plastic, IP67

Ordering Codes

Item code	Descriptions
WSLRW-RD26-30-01	LORAWAN 26GHZ RADAR LEVEL SENSOR, SUS304 JIS10K 100A RF FLANGE, 0-30M CALIBRATED RANGE, IP67 ALUMINUM HOUSING, 860-930 MHZ FOR EU868, IN865, KR920, AS923, AU915, US915
WSLRW-RD26-70-01	LORAWAN 26GHZ RADAR LEVEL SENSOR, SUS304 JIS10K 100A RF FLANGE, 0-70M CALIBRATED RANGE, IP67 ALUMINUM HOUSING, 860-930 MHZ FOR EU868, IN865, KR920, AS923, AU915, US915
<u>OPTIONS:</u>	
/APG	AIR PURGING KIT

⚠ Link for full datasheet: <https://filerun.daviteq.com/wl/?id=chBRtaFCTEaf0jUXUwgzlymONLaekJ3H>

⚠ Link for manual:

daviteq

Daviteq Technologies Inc



www.daviteq.com



info@daviteq.com

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★ Created Sat, Jun 5, 2021 1:28 AM by [Lộc Vĩnh Nguyễn](#)

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