

Pulse RADAR Level Transmitter RLT6200



Measuring range upto 35m



Response Time <2 sec



Process Pressure: (-)1 ~ 40 bar



Sensor Housing: IP67 protection

Product Datasheet

ROCKSENSOR AT A GLANCE (ABOUT US)

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Rocksensor is one of the global leaders specializing in Process Instrumentation, Research and Development and Designing of Industrial Automation Equipment. We provide highly precise pressure sensors and transmitters, flow metres, level transmitters and temperature transmitters with a prime focus to help our clients efficiently, safely and economically run complex industrial processes.

Rocksensor, headquartered in Switzerland, has its footprint in various geographical regions such as the US, Russia, South Korea, Italy, Germany, Singapore, Malaysia, Morocco, China, Taiwan, Australia, UAE, Brazil and India. Our clients come from some of the major industries such as Oil and Gas, Petrochemicals, Pharmaceuticals, FMCG, Automobiles, Water, Cement, Metal & Mining, and mainly from the Power Industry like Nuclear, Thermal, Hydro, and Solar.

Rocksensor deals in a wide range of highly accurate industrial automation instruments ensuring that even the complex industrial processes happen efficiently.

To fulfill the needs of our clients we make sure that our instruments work in even the harsh environmental conditions offering accurate recordings and communication.

We, at Rocksensor, believe in creating bonds that last a lifetime and create a success story for each and every client. Rocksensor aims to achieve a perfect fit in the global market landscape and establish our footprints across the globe.



















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KEY APPLICATION INDUSTRIES

- Oil and Gas sector
- Cement
- Metal
- Pulp and Paper
- Agriculture
- Textiles

- Chemicals
- Power
- Water
- Pharmaceutical
- Fertilizer
- Plastics and HVAC

1. Introduction

The RLT6200 Level transmitter is suitable for continuos level measurement of different media like solid, liquid etc. with low dielectric constant.

2. Area of Application

The RLT6200 is a radar sensor for continuous measurement of bulk solids. It is particularly suitable for level measurement in high silos and large bunkers. The RLT6200 is an economical solution thanks to the simple setup and the reliable, maintenance–free operation.

3. Feature and benefit

Twin-chips

With two chips, RLT6200 achieves higher processing ability.

Multi-Track

Multi-Track Due to new Multi-Track wave tracking algorithm, RLT6200 gets highest reliability.

Waves Memo

With wave management function. To help understand abnormal output, RLT6200 storages wave automatically.

4. Function

Measuring system operates based on the time–of–flight method (ToF). It measures the distance from the reference point (process connection) to the product surface. Radar impulses are emitted by an antenna, reflected off the product surface and received again by the radar system. The time from emission to reception of the signals is proportional to the level in the vessels. A special time stretching procedure allowsreliable and precise measurement of the extremely short signal running times.

5. Technical data

Parameters	Details
Measuring range	0 ~ 70 m
Sample frequency	54Hz
Response time	<2s
Resolution	1mm
Deviation	±3mm
Repeatability	±1.5mm
Frequency	26GHz
Ambient temperature	(-)40°C ~ 70°C
Process temperature	(-)40°C ~ 1000°C
Process pressure	(-)1 \sim 40 bar
Protect level	IP67

6. Material

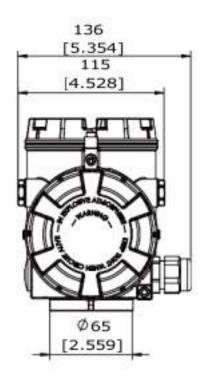
The antenna is made of 316 stainless steel and the process seal is made of FKM.

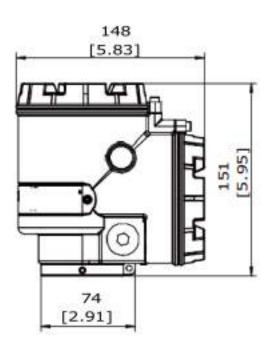


7. Housing version

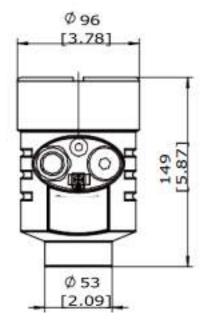
The housings are available as single chamber version and double chamber version in stainless steel or aluminium. They are available with protection ratings up to IP 67 (1 bar).

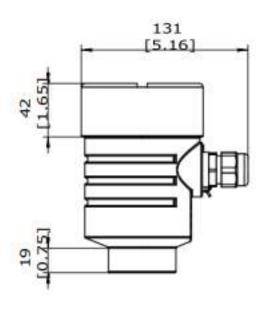
Double Chamber Housing





Single Chamber Housing

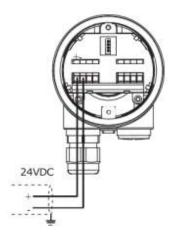




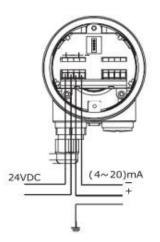
8. Electrical Connection

The instruments are available in different electronics versions. $4 \sim 20$ mA/HART in two and four–wire version with 24 VDC and four–wire with 220VAC.

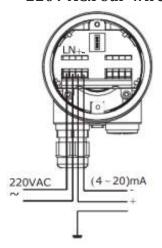
24V DC.Two-wire



24V DC.Four-wire



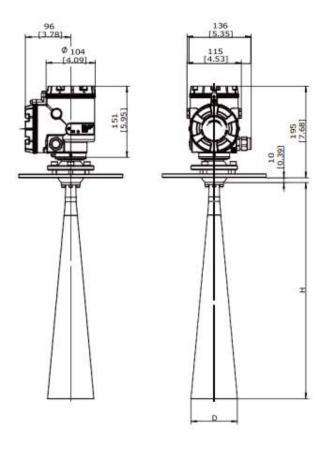
220V AC.Four-wire



9. Operation

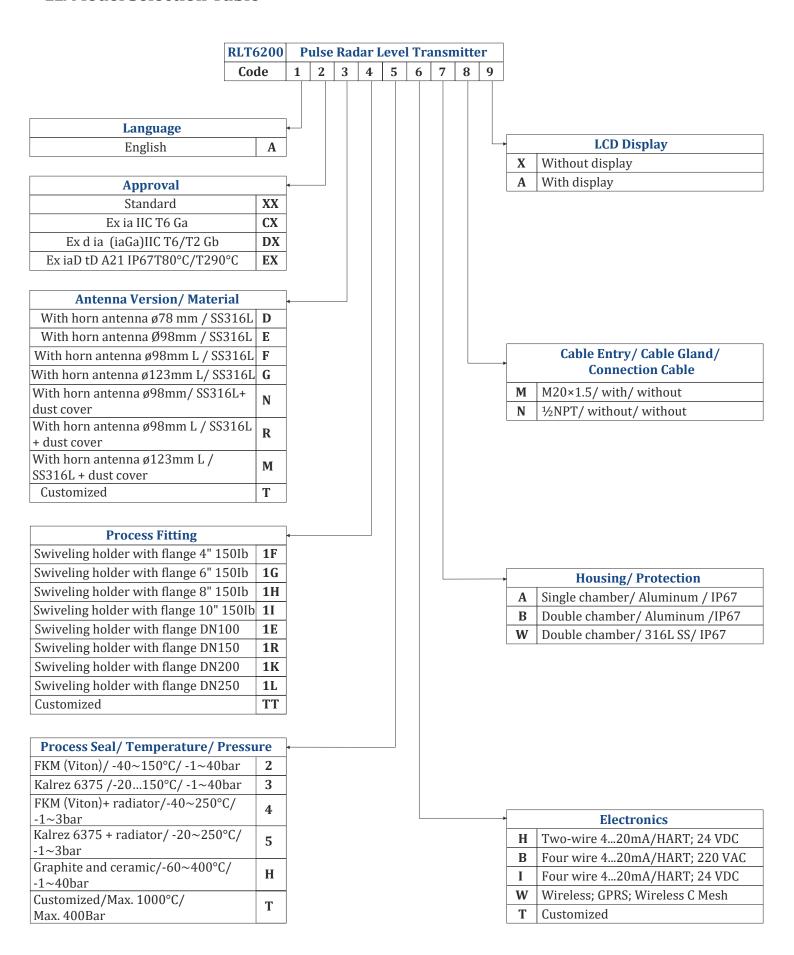
The adjustment of the instrument is carried out via the LCD display, tank side display, tank side hub and HART communicator.

10. Dimensions



Antenna type	D	Н
DN80	78	228
DN100	98	288
DN100(lengthen)	98	473
DN125	123	621

11. Model Selection Table





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Field Instrumentation Range



Pressure Measurement

- Smart Differential Pressure Transmitter
- Smart Gauge Pressure Transmitter
- Smart Absolute PressureTransmitter
- Miniature Pressure Transducer without display
- Sanitary Gauge/ Absolute Pressure Transmitter



Flow Measurement

- Coriolis Mass Flowmeter
- Thermal Gas Mass Flowmeter
- Positive Displacement Flowmeter
- Electromagnetic Flowmeter
- Vortex Flowmeter



Level Measurement

- RADAR Level Transmitter Horn Antenna
- Compact RADAR Level Transmitter
- RADAR Level Transmitter Sanitary
- RADAR Level Transmitter
- Guided Wave RADAR Level Transmitter
- Guided Wave RADAR Level Transmitter
- RADAR Level Transmitter Lens Antenna

Temperature Measurement

- Head Mount Temperature Transmitter
- Temperature Transmitter for Sanitary Applications

- Submersible Pressure Transmitter
- Remote Seal Differential P.T. with capillary
- Remote Seal Differential P.T. Direct Mount
- Remote Seal Gauge/Absolute P.T. with capillary
- Remote Seal Gauge/Absolute P.T. Direct Mount
- Turbine Flowmeter
- · Variable Area Flowmeter
- · Clamp On Ultrasonic Flowmeter
- Inline Ultrasonic Flowmeter
- Portable Ultrasonic Flowmeter
- RADAR Level Transmitter Rod Antenna
- Ultrasonic Level Transmitter
- Microwave Barrier Level Switch
- Admittance Level Switch Series
- Vibrating Rod Level Switch Series
- Tuning Fork Level Switch Series
- DIN Rail Temperature Transmitter
- Field Mount Temperature Transmitter

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