

SIER ELECTRONICS CO., LTD

SRS01 Integrated Radar Level Transmitter

Features

- Compact RF architecture, higher signal-to-noise ratio, smaller blind zone
- 5GHz operating bandwidth, higher measurement resolution and accuracy
- Narrowest beam angle of 2.75°, easy installation
- 4~20mA output, RS485, Bluetooth multiple communication methods
- Made of corrosion-resistant materials

Applications

- Water and wastewater treatment
- Chemical industry
- Food and beverage
- Pharmaceutical industry



Introduction

The SRS01 radar level meter supports RS485/4-20mA applications. The product can achieve a maximum measuring range of up to 40m, with a minimum blind zone as low as 5cm. Due to its higher operating frequency and shorter wavelength, it is particularly suitable for solid applications. The lens-based transmission and reception of electromagnetic waves offers unique advantages in high dust and harsh temperature environments (-40°C~+120°C). The instrument features a threaded mounting method, making installation convenient and simple.

Specification

Communication Type	RS485	4-20mA Three-wire + RS485	4-20mA Two-wire + Bluetooth
Sampling Frequency	20ms/Configurable		1500ms
Pulse Current	100mA/10ms		60mA/24V
Voltage Range	9~24V		24V
Transmitting Frequency	80GHz		
Measurement Accuracy	±2mm		
Resolution	1mm		
Beam Angle	2.75°		
Communication Protocol	Modbus RTU/Text Protocol		
Measuring Range	0~40m		
Ingress Protection	IP68		

SRS01 Integrated Radar Level Transmitter Datasheet

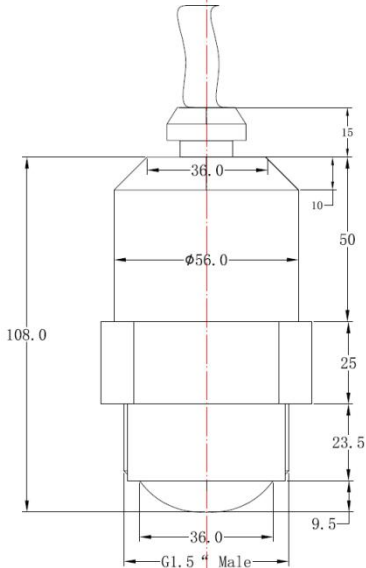
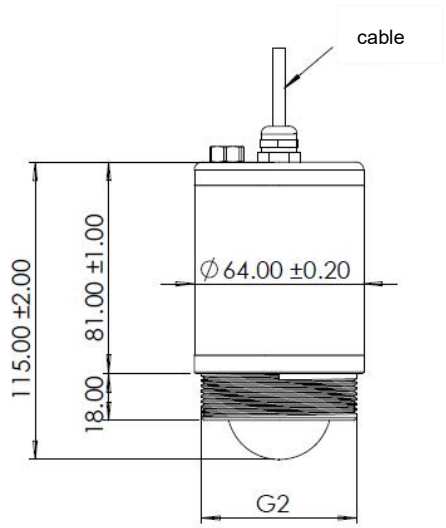
Operating Humidity	0~90%
Operating Temperature	PP: high temp 75℃, Stainless Steel: high temp resistant 120℃
Housing Material	PP, Stainless Steel 304

Materials of Construction

Housing	PP / Stainless Steel 304
Pressure Connection	PP / Stainless Steel 304
Cable	Polyethylene / Polyurethane

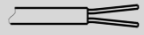
Dimensions (Unit: mm)

PP	Stainless Steel 304
----	---------------------

Contact us for other requirements.

Electrical Connections

Cable				
		2-Wire	3-Wire	3-Wire+RS485
	V+	Red	Brown	Brown
	V-	Black	Grey	Grey
	RS485A	-	-	Yellow
	RS485B	-	-	Green
	OUTPUT	-	Yellow	White

Order Information

SRS01	Radar Level Transmitter					
	Range	0~40m				
	[0~X]m	X: (X = actual range)				
	Code	Output signal				
	EB	4~20mA Two-wire + Bluetooth				
	E3R	4~20mA Three-wire + RS485				
	RB	RS485				
	Code	Materials of Construction				
		Housing				
	22	SS304				
	35	PP				
		B2	Cable exit			
			C30	G1.5		
			C31	G2		
SRS01	20	EB	22	B2	C1	the whole spec

Contact

A: 2nd Floor, Building No.A2, Western sensor park, No.30 Jiangtan Xi Road, Baoji 721004, Shaanxi, China
 Tel: +86 917 3652001
 Fax: +86 917 3652001
 Email: kenny@siereselectro.com
 Web: www.siereselectro.com