

The Need For Every  
Process Industry



# RADAR LEVEL TRANSMITTER

MODEL: SC / L-150X

The Radar uses an Frequency of 80GHz and works on Frequency Modulated Continuous Wave.

The FMCW Radar emits a high frequency signal whose frequency increases linearly during the measurement phase (called the frequency sweep). The signal is emitted, reflected from the measuring surface and received with a time delay,  $t$ . Delay time,  $t=2d/c$ , where  $d$  is the distance to the product surface and  $c$  is the speed of light in the gas above the product. For further signal processing the difference  $\Delta f$  is calculated from the actual transmit frequency and the receive frequency. The difference is directly proportional to the distance.

## LEVEL

# ALL THE INFORMATION YOU NEED FOR YOUR NEXT RADAR

Radar Model	SC / L-1501	SC / L-1502	SC / L-1503L	SC / L-1503S
Application	Liquid / Slurries	Liquid / Slurries / Solids	Liquids / Slurries	Liquid / Slurries / Solids
Range	0-10m (30m opt)	0-10/15/20/40m	0-40m	0-70/85/120m
Opr. Frequency	80 Ghz	80 Ghz	80 Ghz	80 Ghz
Power Supply	15 - 36VDC (2wire)	15-36VDC (2 wire)	15 - 36VDC (2wire)	15 - 36VDC (2wire)
Output	4-20mA (2 wire)	4-20mA (2/4 wire) / RS485 Modbus	4-20mA (2/4 wire) / RS485 Modbus	4-20mA (2/4 wire) / RS485 Modbus
Accuracy	Upto $\pm 2$ mm	Upto $\pm 1$ mm	Upto $\pm 1$ mm	Upto $\pm 1$ mm
Resolution	1mm	1mm	1mm	1mm
Repeatability	Upto $\pm 1$ mm	Upto $\pm 1$ mm	Upto $\pm 1$ mm	Upto $\pm 1$ mm
Opr. Temp.	-40°C to +80°C	-40°C to +100°C	-40°C to +250°C (400°C /1200°C on Request)	-40°C to +250°C (400°C /1200°C on Request)
Opr. Pressure	-1 Bar to +2 Bar	-1Bar to +5Bar	-10 Bar to +40 Bar	-10 Bar to +40 Bar
Configuration/ Zero and Span Adjustment	Bluetooth Android & iOS App	HART 7.0/Display Keypad/Bluetooth Android & iOS App	HART 7.0 / Display Keypad / Bluetooth Android & iOS App	HART 7.0 / Display Keypad / Bluetooth Android & iOS App
Housing	Aluminium / PP	Aluminium / SS316	Aluminium / SS316	Aluminium / SS316
Sensor (Standard)	PP	PTFE Lens Antenna +PVDF Connection.	PTFE Lens Antenna +PVDF / SS Conn.	PTFE Lens Antenna + SS Conn.
Cable Entry	M20 / 1/2" NPT (OPTIONAL)	M20 / 1/2" NPT (OPTIONAL)	M20 / 1/2" NPT (OPTIONAL)	M20 / 1/2" NPT (OPTIONAL)
Response Time	Less than 1 Sec	Less than 1 Sec	Less than 1 Sec	Less than 1 Sec
Load Impedance	700 $\Omega$	700 $\Omega$	700 $\Omega$	700 $\Omega$
Protection	Weatherproof IP 68	Ip67 / 68 Ex db IIC T6 Gb Ex ia IICT6 Ga	Ip67 / 68 Ex db IIC T6 Gb Ex ia IICT6 Ga	Ip67 / 68 Ex db IIC T6 Gb Ex ia IICT6 Ga
Failure Output	3.9mA/Hold/22mA	3.9mA/Hold/22mA	3.9mA/Hold/22mA	3.9mA/Hold/22mA

# 80GHz RADAR LEVEL TRANSMITTER WITH BLUETOOTH

MODEL : SC / L-1501

Compact 80GHz Radar



## MODEL CODING : SC / L-1501 - 1-2-3-4-5-6-7-8-XX

### 1. Approvals

P	Standard
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### 2. Temperature

A	-40° to 80°C
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### 3. Antenna Material

C	PP
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### 4. Thread / Flang

GC	Thread G 1½A
GD	Thread G 2A
GE	Thread G 2½A

### 5. Output

A	4-20mA (2wire, 24VDC)
B	4-20mA HART (2wire, 24VDC)

### 6. Housing

D	Aluminum - IP68
H	PP - IP68

### 7. Display / Programming

A	With Loop Powered Indicator
B	Without Loop Powered Indicator

### 8. Range

X	Mention Maximum Range in meters (10/30)
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# 80GHz RADAR LEVEL TRANSMITTER WITH HART

MODEL : SC / L-1502

Compact 80GHz Radar



## MODEL CODING : SC / L-1502 - 1-2-3-4-5-6-7-8-XX

### 1. Approvals

P	Standard
F	Explosion Proof (Ex db IIC T6 Gb)
I	Intrinsic Safe (Ex ia IICT6Ga)
G	Explosion Proof (Ex db IIC T6 Gb) + Intrinsic Safe (Ex ia IICT6 Ga)

### 2. Temperature

A	-40° to 100°C
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### 3. Antenna / Sensor

D	PTFE Lens Antenna with PVDF Connection
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### 4. Process Connection Size

GC	Thread 1½A (for Liquid Applications)
GD	Thread G 3A (for Solid Application)

### 5. Output

B	4-20MA HART (2 Wire, 24 VDC)
R	RS485 Modbus

### 6. Housing / Enclosure

D	Aluminum (2 Chamber)
G	SS316

### 7. Cable Entry

M	M20
N	¼" NPT

### 8. Display

A	Integral LCD Display with Keypad
B	Integral LCD Display with Keypad + Remote Loop Powered Indicator

### 9. Range

XX	Maximum Range in meters (10/15/30/40)
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Flange As Per Customer Requirement

# 80GHZ HIGH FREQUENCY RADAR LEVEL TRANSMITTER

MODEL : SC / L – 1503L (Liquid, Slurries)

MODEL : SC / L – 1503S (Solid)



## MODEL CODING : SC / L-1503 - 1-2-3-4-5-6-7-8-XX

### 1. Approvals

P	Standard
F	Explosion Proof (Ex db IIC T6 Gb)
I	Intrinsic Safe (Ex ia IICT6Ga)
G	Explosion Proof (Ex db IIC T6 Gb) + Intrinsic Safe (Ex ia IICT6 Ga)

### 2. Temperature

A	-40° to 200°C
B	-40° to 250°C
D	-40° to 400°C/-40° to 1200°C (Only with G)

### 3. Antenna / Sensor

C	PTFE Lens Antenna with SS316L Connection PTFE Seal
E	SS316L Horn Antenna with PTFE Seal
G	Ceramic with Horn Antenna / or Special HT Bracket

### 4. Process Connection Size

GC	Thread 1½A
GD	Thread G 3A

### 5. Output

B	4-20MA HART (2 Wire, 24 VDC)
C	4-20MA HART (4 Wire, 24 VDC) -230/110 VAC through SMPS
R	RS485 Modbus

### 6. Housing / Enclosure

D	Aluminum (2 Chamber)
G	SS316

### 7. Cable Entry

M	M20
N	½" NPT

### 8. Display

A	Integral LCD Display with Keypad
B	Integral LCD Display with Keypad + Remote Loop Powered Indicator

### 9. Range

XX	Maximum Range in meters (40) - SC/L-1503L
XX	Maximum Range in meters (70/85/120) - SC/L-1503S

Flange As Per Customer Requirement



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