

## **PKS-RDR**

# W-band(EHF), 120 GHz Level/Compact Radar Gauge

#### Characteristics

Non-contact W-band radar

 technology is characterized by a
 particularly high measurement
 accuracy. The measurement is not
 affected by changing medium
 properties or by changing process
 conditions such as temperature,
 pressure or intense dust generation.
 User-friendly adjustment without
 vessel filling and emptying saves
 time and the sensors are
 maintenance free.



 Industrial design concept, the appearance of the product fits in natural environment

#### Applications

- PKS-RDR Radar sensors are used for non-contact level measurement of liquids and bulk solids. They measure all kinds of liquids, even under high pressure and extreme temperatures, in solvents as well as aggressive liquids, they are also suitable for use in applications with stringent hygiene requirements.
- PKS-RDR can also measure the lightest to the heaviest of bulk solids with absolute reliability, even in the
  presence of dust and noise, without being affected by buildup or condensation. Suitable for liquids and
  bulk solids in simple process conditions.



#### **Specifications**

	PKS-RDRMP-R	PKS-RDRMP-A	PKS-RDRMP-H
Measuring Range	Up to 18 m (59.06 ft)	Up to 18 m (59.06 ft)	Up to 40 m (131.24 ft)
Beam Angle (α)	5°	5°	5°
Process Connection	Thread G2-1/4, G2-1/4 NPT	Thread G2-1/4, G2-1/4 NPT	Thread G2-1/4, G2-1/4 NPT
Meas. Frequency	120GHz technology	120GHz technology	120GHz technology
Sensor Material	POM / PVDF(option)	POM / PVDF(option)	POM / PVDF(option)
Housing Material	POM / PVDF(option)	POM / PVDF(option)	POM / PVDF(option)
Ingress Protection	IP68 (3 bar) acc. to IEC 60529	IP68 (3 bar) acc. to IEC 60529	IP68 (3 bar) acc. to IEC 60529
Ambient Temp.	-40 +80 °C	-40 +80 °C	-40 +80 °C
Process Temp.	-40 +80 °C	-40 +80 °C	-40 +80 °C
Operating Pressure	-1+3 bar (-100+300 KPa)	-1+3 bar (-100+300 KPa)	-1+3 bar (-100+300 KPa)
Power Supply	9 ~ 38 VDC	12 ~ 38 VDC	16 ~ 40 VDC
Accuracy	±1 mm	±1 mm	±3 mm
Output	RS485, SDI-12, Modbus, Relay(option)	Two wire 4-20 mA only	Two wire 4-20mA / HART7
Display/adjustme nt	CHINASIMBA Tools app, <i>Radar MobileManager</i> and <i>Radar PCManger</i> (PC software)		
No. of cable entries	1 PVC Insulated cable		
Bluetooth Standard	Bluetooth 5.0 (downward compatible to Bluetooth 4.0 LE), range 40 m (131.24 ft)		

### **PKS-RDR (Dimensions):**

