



陕西声科电子科技有限公司
SHAANXI SHENGKE ELECTRONIC TECHNOLOGY CO.,LTD
TEL: +86 18729098936 FAX: 029-88858601
E-mail:sales@skgauge.com <https://www.skgauge.com/>

SK-R800E

80GHz Radar Level Transmitter

OEM / ODM





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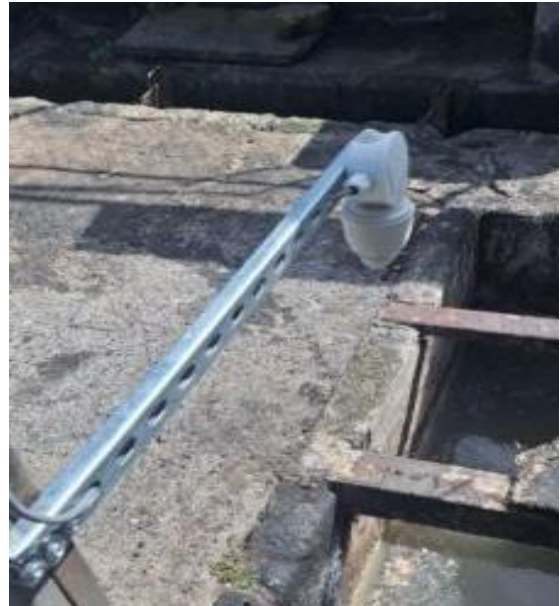
<https://www.skgauge.com/>

The SK-R800E is the ideal sensor for non-contact continuous level measurement for general applications. Lightweight and compact. It is particularly suitable for open channel application: water/wastewater field, rain basins, dam water level monitoring.

- * 80GHz frequency: best integrated signal
- * Accuracy: ± 2 mm(liquid)
- * Measuring range: up to 50m
- * Small emitting angle: $\pm 3.5^\circ$
- * Thread: G1.5", flange can be customized.

4-wire Power: 10 ~32VDC

2-wire Power: 18 ~ 36VDC





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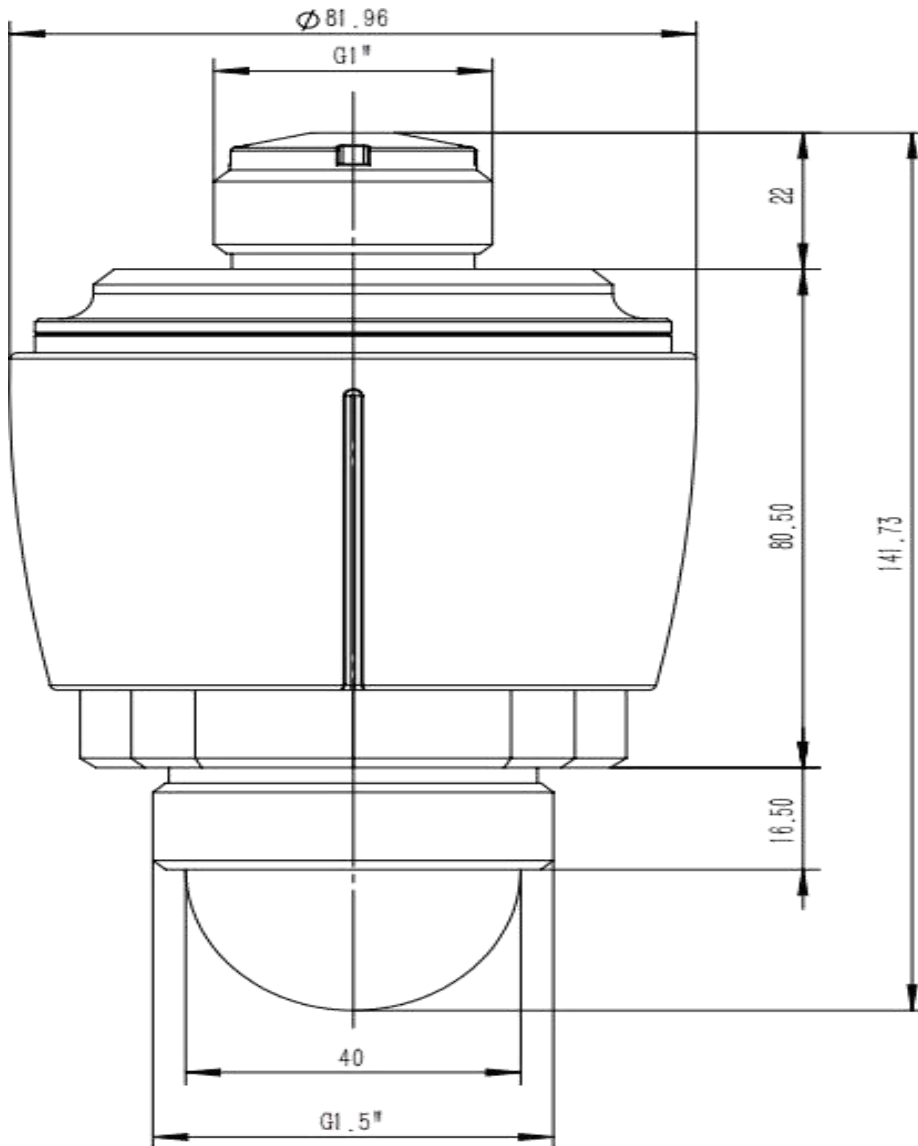
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Dimensions



Mobile App : RadarMe



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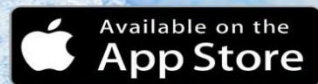
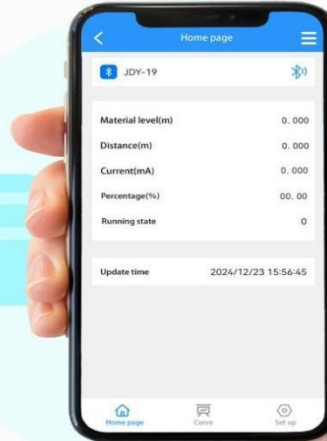
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Specification

Model	SK-R800E
Product Type	FMCW Radar Level Transmitter
Application	* Open channel water level measurement * Level measurement for common liquids
Frequency	76Ghz - 81Ghz
Measurement Range	Liquid: 10M 20M 30M 50M
Accuracy	±2mm
Beam Angle	±4°
Material	PBT+GF
Process Connection	G1.5" Thread and flange (can be customized)
Process Temperature	-25°C ~70°C
Process Pressure	Normal atmospheric pressure
Signal output	4-20mA / RS485/ Bluetooth /HART (optional)
Power	Two-wire DC 24V / Four-wire 10 ~ 32VDC
Protection	IP67
Weight	83mm*128mm, weight 550g



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Technical parameters

Working Principle	FMCW
Working frequency band	76- 81GHz
Power supply	Two-wire DC 24V (18V~36V)
Signal output	4 ~ 20mA
Applications	Water treatment, open-channel, river, lake, lift-stations...
Range	0 ~ 50m
Communication	Modbus/Bluetooth
Bluetooth parameters	BLE5.1
Output signal	Rs-485
Ambient temperature	-25℃ ~+70℃
Storage temperature	-40℃ ~+70℃
Ambient humidity	(0%~95%) RH
Process pressure	-1~3ba
Sizes	φ83mm×127mm
Mounting thread	G1.5"
Accuracy	±0.02%FS
Migration(Offset)	±9.9m
Display	No display screen, mobile phone APP - "RadarMe"
Beam Angle	±4°
Lens	PP
Debugging Methods	Mobile App (connect via Bluetooth), PC programme
Standard Accessories	1 m connecting cable
Optional Accessories	Mounting bracket/Mounting nuts
Protection	IP67
Sealing material	FKM
Housing	PBT+GF



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SK-R800E Model Selection

SK-R800 80GHz Radar Level Transmitter (GFPP housing, no display)

Code		Medium Type						
E		Water/Liquid						
		Code	Measuring Range(m)					
0.2~30		10	20	30	50			
		Code	Connection					
		G	G” Thread					
		F	Flange					
		Code	Temperature					
		N	-25-70℃					
		Code	Electronics					
		T	4-20mA					
		M	Modbus					
		B	Bluetooth wireless					
		Code	Protection					
		P	IP67					
		Code	Cable Length					
		1-10	1	2	5	10		
SK-R800	E	10	G	N	TMB	P	1	