

SD1

Ultrasonic Pocket Doppler
Version 1.0

Data Sheet



Physical Specifications	Dimensions(D×W×H)	(48±2)mm×(39±2)mm×(147±3)mm
	Weight	<180g
	Display	(24±2)mm×(13±2)mm
Power Supply	Battery	Two AA 1.5V Alkaline Batteries (AA, LR6, 1.5V) Working Duration ≥6h
LCD	Display Content	FHR/Battery Level/Signal Intensity/Sound Volume Level/FH Icon
Audio Output	Output Power	2W
	Background Noise	<45dBA
	Overall Sensitivity	>110dB
FHR	Operating Mode	PW
	Working Frequency	3MHz
	Nominal Frequency	3MHz
	FHR Measurement Range	50bpm ~ 240bpm
	Resolution	1bpm
	Accuracy	±2bpm
	Ultrasound Output	$I_{sppa.3} < 190W/cm^2$ $I_{spta.3} < 94mW/cm^2$ $I_{sata} < 10mW/cm^2$
	Effective Radiating Area	(490 ± 15%)mm ²
Other Info.	p- <1MPa $I_{ob} < 10mW/cm^2$ $I_{spta} < 100mW/cm^2$	
Auto Power-off	Power off when the Doppler receives no signal or operation for 2 minutes.	
Bluetooth	Transmission Range (Without Obstacles)	>5m (Indoor range depends on the building's structure and material.)
	Modulation	GFSK π /4-DQPSK 8DPSK
	Frequency	2400-2483.5MHz
	Tolerance Frequency	≤20ppm
	RF output power	≤20dBm (EIRP)
	Occupied Channel Bandwidth	≤2MHz
	Transmitter Unwanted Emissions	≤-30dBm
Coupling Gel	pH	5.5 ~ 8.0
	Acoustic Impedance:	1.5x10 ⁶ Pa.s/m ~ 1.7x10 ⁶ Pa.s/m (35°C/95°F)
Safety Specifications	Standards Compliance	IEC 60601-1:2005/A1:2012, EN 60601-1:2006/A1:2013, IEC 60601-1-2:2014, IEC 60601-2-37:2015, IEC 60601-1-11:2015, IEC 61266:1994
	Anti-electric Shock Type	Internally powered equipment
	Anti-electric Shock Degree	Type BF equipment
	Degree of Protection against Harmful Ingress of Water	IP22. Do not immerse it in water.

	Degree of Safety in Presence of Flammable Gases	Equipment not suitable for use in presence of flammable gases
	EMC	CISPR11 Group 1 Class B
	Working System	Continuous Operation
Environmental Specifications	Temperature	Working +5°C ~ +40°C (+41°F ~ +104°F) Transport and Storage -25°C ~ +70°C (-13°F ~ +158°F)
	Relative Humidity	Working 15% ~ 95% (non-condensing) Transport and Storage 15% ~ 95% (non-condensing)
	Atmospheric Pressure	Working 70kPa ~ 106kPa Transport and Storage 70kPa ~ 106kPa