

Guidance and Manufacturer's Declaration- Electromagnetic Immunity

The STS™ Receiver is intended for use in the electromagnetic environment specified below. The customer or the user of the STS Receiver should assure that it is used in such an environment

IMMUNITY TEST	IEC 60601 TEST LEVEL	COMPLIANCE LEVEL	ELECTROMAGNETIC ENVIRONMENT- GUIDANCE
Conducted RF IEC 61000-4-6	3 Vrms 150 k Hz to 80 MHz	3 V	Portable and mobile RF communications equipment should be used no closer to any part of the STS Receiver, including cables than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended Separation Distance $d = 1.2 P^{0.5}$ $d = 1.2 P^{0.5}$ 80 MHz to 800 MHz $d = 2.3 P^{0.5}$ 800 MHz to 2.5 GHz
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey ^a should be less than the compliance level in each frequency range ^b .  Interference may occur in the vicinity of equipment marked with the following symbol:

Note 1: At 80 MHz and 800 MHz, the higher frequency range applies

Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people

^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measure field strength in the location in which the STS™ Receiver is used exceeds the applicable RG compliance level above, the STS Receiver should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary. Such as reorienting or relocating the STS Receiver.

^b Over the frequency range 150 KHz to 80 MHz, field strengths should be less than 3 V/m

Recommended Separation Distances Between Portable and Mobile RF Communications Equipment and STS Receiver

The STS Receiver is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the STS Receiver can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the STS Receiver as recommended below, according to the maximum output power of the communications equipment.

RATED MAXIMUM OUTPUT POWER OF TRANSMITTER (W)	SEPARATION DISTANCE ACCORDING TO FREQUENCY OF TRANS- MITTER (M)		
	150 kHz to 800 MHz $d = 1.2 P^{0.5}$	800 MHz to 800 MHz $d = 1.2 P^{0.5}$	800 MHz to 2.5 GHz $d = 2.3 P^{0.5}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacture.

Note 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

Note 2: These guidelines may not apply in all situations. Electro-magnetic propagation is affected by absorption and reflection from structures, objects and people.

BG METER CONNECTION CABLE

Length	6.6 ft (2m)
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CHARGING CABLE

Length	6.6 ft (2 m)
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9.3 FCC REQUIREMENTS

The DexCom STS™ Transmitter covered by this User’s Guide has been certified under FCC ID:

PH29300
PH29400

The STS Transmitter is authorized by rule under the Medical Implant Communications Service (part 95 of the FCC Rules) and must not cause harmful interference to stations operating in the 400.150–406.000 MHz band in the Meteorological Aids (i.e. transmitters and receivers used to communicate weather data), the Meteorological Satellite, or the Earth Exploration Satellite Services and must accept interference that may be caused by such aids, including interference that may cause undesired operation.

The STS Transmitter shall be used only in accordance with the FCC Rules governing the Medical Implant Communications Service. Analog and digital voice communications are prohibited. Although the STS Transmitter has been approved by the Federal Communications Commission, there is no guarantee that it will not receive interference or that any particular transmission from the STS Transmitter will be free from interference.

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