

Radio Certification

Technical Description of Device

Device Name:
FreeEMG 300

Model Name:
BTSWAUX

Regulatory Body: **FCC**

ID: YQH-BTSWAUX

Category: N/D

Regulatory Body: **Industry Canada**

ID: 9188A- BTSWAUX

Category: Class I radio device

Description:

The FreeEMG 300 wireless AUX sensor ("Sensor") is a battery powered, wireless sensor designed to measure the input signals that come from a variety of external sensors. The Sensor is one of the components that make up a device used for "surface electromyography".

The Sensor is intended to be used exclusively with a FreeEMG 300 Acquisition Unit ("AU") manufactured by BTS.

The Sensor establishes a wireless data link with an AU, receives commands from it sends back data and status information.

The radio link uses the IEEE 802.15.4 standard and operates in the 2.4GHz band. The Sensor's EIRP is less than 10mW.

The Sensor is physically connected to an external sensor using one of two ports. The Sensor has been designed and tested to operate with foot-switches and electrogoniometers.

The signals generated by the external sensors is measured by the Sensor, sampled by its A/D converter and sent to the AU via the wireless link.

The internal Li-Ion battery is charged by its Charging Station via the same plugs used to connect to the external sensors, therefore the device cannot operate while recharging.