

OPERATIONAL DESCRIPTION



9285 Pierson Lake Drive
Chaska, MN 55318 USA

For the attention of FCC CERTIFICATION BODY

COVER LETTER

We are utilizing a modular transceiver purchased from Hoperf Electronics Model HM-TRP to wirelessly control functions of a visual reinforcement audiometer typically used in close proximity. Short bursts of data are sent on a 433MHz frequency carrier to operate and set functions of these devices typically used in a sound room for distraction purposes.

We are pursuant of certification of this radio under part 15.231

Model XM-5000

The frequency which the transmitter operates. 433 MHz

- The power settings used for radio testing and the power setting used in your product firmware. (the datasheet lists adjustable settings). Level 2 -5dBm

- The communication speed (data rate) implemented in your equipment. Please confirm that this is the data rate implemented during radio testing. Manually activated 2400 BAUD (data rate 3 bytes every 100mSecd when activated)

- A description of the type of modulation your equipment implements. FSK

- A description of how the equipment is normally used by a person. Is it handheld, placed in a fixed location (i.e. mounted to a wall), used in a work environment, used at home?

The product is typically installed in a sound booth mounted to the wall in a clinic and is operated by a professional by momentarily activating the unit for distraction purposes.

- Is the radio manually operated? Yes the product is manually activated with a momentary push button and will time out after 5 seconds.

Does your equipment use periodic transmissions at regular predetermined intervals? NO

- Is this equipment used for radio control purposes during emergencies involving fire, security, and safety of life? NO

- Is this equipment is used for security systems, does it use professional installation? NO

- What are the means for automatically limiting operation so that the duration of each transmission is not greater than 1 second, and the silent period between transmissions is at least 30 times the duration of the transmission (> 10 seconds)? Duty cycle is less than 1%

A handwritten signature in blue ink, reading "James L. Pehringer", is written over a horizontal line.

Date: June 22, 2022

James L. Pehringer

President

Pehrtek Products
9285 Pierson Lake Drive
Chaska, MN 55318