



FCC ID: 2AD7T21122013101

Application for Limited Modular Approval

The HHM-A001 contains completely self-contained radio frequency transmitter devices. It includes a 2.4 GHz Zigbee transceiver and a 125 kHz LF transmitter.

HHM-A001 will be incorporated into a limited set of pre-defined dispensers by a representative of the dispenser manufacturer, following the instructions given in "User Manual HHM-A001", ensuring compliance of the end product with respect to 15.212(b).

- (i) The radio elements of the 2.4 GHz Zigbee transceiver part do not have their own shielding. The radio part of the 125 kHz LF transmitter does not have its own shielding
- (ii) The HHM-A001 does not have any modulation inputs, or data inputs that affect radio transmission.
- (iii) The HHM-A001 provides 6.0 V to the 125 kHz LF transmitter from batteries in the dispenser whereas it has an internal 3.3 V voltage regulator for supplying power to the 2.4 GHz transmitter.
- (iv) The HHM-A001 has permanently attached antennas
- (v) The HHM-A001 has been tested in a standalone configuration
- (vi) The HHM-A001 is equipped with a permanently affixed label, displaying its own FCC identification number. The HHM-A001 is a part of a dispenser, delivered in modules to the end customer. Before the module is assembled into the dispenser at site, the labels on all modules with FCC ID are fully visible.
- (vii) The specific rule parts that apply to the complete transmitter are 15.209 and 15.247.
- (viii) The applicable RF exposure requirements is 47CFR 1.1310(e) Table 1 (B) Limits for the General Population.
- (ix) The end product into which the module will be installed will be inspected manually at regular intervals during change of batteries and automatically through error messages communicated from the dispenser to the module (wired) and further to a server (wirelessly). Compliance of the end product will thereby always be ensured with respect to 15.212(b).

Sincerely,

Signed:

Printed name: Maaike Taklo

Title: VP Engineering