15th May 2018

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Modular Approval Letter

FCC ID: YPHDEB1135-400

We hereby request a single modular approval for our Dispenser Telemetry Module, equipment class Part 15.247 subpart c;

1. The module has its own shielding and does not rely on any shielding that could be introduced as a result of integrating the module into a final product.

The product has a 30x20x5 shielding can component, Part reference U6, as part of the final assembly build.

2. The module has interfaces that are digital and do not allow excessive data rates or over modulation rates to occur.

The module has internal logic that responds to an optical trigger and sends a single predetermined message to be transmitted after 2.5 seconds. The internal logic does not allow excessive messages to be transmitted as this would be recognised as a fault event and the device would switch itself off.

3. The module has on board power supply regulation and is therefore not reliant on any PSU regulation from the host equipment.

The product has an on board self-contained power supply, an AA high power lithium thionyl chloride cell battery, Part reference BT1. This is the only power source needed to operate the unit and there is no requirement or provision for the product to take power from any host equipment.

4. The external antenna connector provided on the PCB is considered a unique connector.

The module has an integral PCB antenna. No external antenna connector is provided for.

5. The module has been tested as a stand-alone device.

Reference TUV-SUD Test Reports attached to this application for details of the unit testing that was carried out. Unit was tested in isolation as a stand-alone device.

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6. The module will be labelled with a unique FCC identifier and the integration instruction will document the requirement for an external label if the module label will not be visible in the final product.

Label artwork has been submitted as part of this application which displays the unique FCC identifier; this label will be placed directly on the board.

7. The integration instructions have been provided with this application.

Exhibit User Manual, 1135-400 Installation & operation manual. PDF covers integration of the board in to a final housing (host equipment).

8. The module complies with the RFI Exposure requirements for devices at >20cm from the user.

The module is exempt from the requirement in accordance with FCC Rule 2.1091 (c).

Yours sincerely,

Paul Dodds
Electronics Development Manager