

## OPA MOTE USER GUIDE

Model: M01C100R03

This document is a User Guide for the second generation BLE OPA mote, model number M01C100R03, FCC-ID: 2AQ6J-M01C100R03, IC-ID: 24331-M01C100R03.



STEP 1: Connect the modified micro USB to USB cable, supplied by VIE Technologies, to the OPA mote.

**DO NOT USE A STANDARD CABLE**

STEP 2: Connect the USB end of the cable to a 5V power supply. The OPA mote is now active and able to transmit.

STEP 3: Verify that the OPA mote is turned on and transmitting by discovering its ID through the mobile application.

STEP 4: Prepare the surface to which the OPA mote will be attached as follows –

- a) Use a 120 grit sandpaper, preferably with a Dremel tool (not provided), to prepare the metal surface for OPA mote adhesion.
- b) Clean the sanded surface with ethanol.
- c) Let the ethanol evaporate.

STEP 5: Apply epoxy to both the metal surface and the bottom of the OPA mote.

STEP 6: Attach the OPA mote to the metal surface and hold tightly for 3 minutes.

STEP 7: Return to the OPA mote after 20 minutes to verify that the epoxy has cured and the mote is firmly affixed.

Note: This device is professionally installed on site by the Vie Technologies team. It is only connected to a computer USB port for less than 5 minutes. Then the cable is detached and permanently mounted on the industrial machines to collect data. There are no emissions from the device until activated by the installation team, as the internal 3V battery has not been electrically connected. Once the EUT activates the cable is immediately removed

After setup the non-standard USB cable is removed and the OPA mote is powered from the internal non-rechargeable battery

NOTICE:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Ce dispositif contient les émetteurs/récepteurs autoriser-exempts qui sont conformes au permis RSS exempt du Canada d'innovation, de la Science et de développement économique. L'opération est sujette aux deux conditions suivantes:

- (1) Ce dispositif peut ne pas causer l'interférence.
- (2) Ce dispositif doit accepter n'importe quelle interférence, y compris l'interférence qui peut causer le fonctionnement peu désiré du dispositif.

RF Exposure Compliance:

The equipment should be installed and operated with a minimum distance of 20cm between the device and your body.

Il devrait être installé et fonctionner à une distance minimale de 20 cm entre l'antenne et votre corps.