

**Federal Communications Commission
Authorization and Evaluation Division**

Date: April 4th, 2022

Subject: Compliance to Permissive Change Policy for Functional Variants Regarding Application for FCC ID: 2ALEPT0007805

The Breeze, Breeze-V, and Vivid+ are LoRa sensors for IoT applications. Each sensor can support multiple RF regions, including North America.

The Breeze, Breeze-V, and Vivid+ are all functional variants in the same sensor family that share the same printed circuit board. The Breeze, Vivid+, and Breeze-V variants are not different in RF circuitry, but are only different in transducer population: Breeze has the CO₂ transducer and barometer populated; Vivid+ has the PIR human motion detector populated. The Breeze-V variant has the CO₂ transducer, barometer, and PIR human motion detector populated.

The functional variants are compliant to the requirements outlined in Section III of KDB Publication 178919 D01 (Permissive Change Policy) to be authorized under one FCC ID. Specifics for the compliance to each subpart are described below.

Section III Part A: Each variant is considered electrically equivalent as per the permitted changes described in § 2.1043(a).

Section III Part B: The same transmitters are populated on each variant.

Section III Part C: There are no changes in the integral active hardware components between functional variants that would otherwise result in different radio parameters or cause the device to be non-electrically identical.

Section III Part D: There are no substitutions of non-electrically identical parts required between variants.

Section III Part E: There are no changes in transmitter amplifiers between variants.

Section III Part F: There are changes to minor circuitry for non-transmitter portions, the specifics of which are depopulated components related to the excluded sensing functions and their interfacing circuitry. The variant acting as the “worst case” from an emissions perspective was tested, namely, the Breeze-V (T0007806) model.

Sincerely,



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