

August 12, 2020

Federal Communications Commission  
Authorization and Evaluation Division  
7435 Oakland Mills Road  
Columbia, Maryland 21046

Re: Preco Electronics PRECOlink Wireless CAN unit  
FCC ID: OXZPCLK2020

To whom it may concern:

Preco Electronics is seeking original certification for PRECOlink PWL800\_ Wireless CAN unit. The name of the unit is PRECOlink and the models are PWL8003 for the coordinator unit and PWL8004 for the end device unit. The difference between coordinator and end device units is software only, the hardware is identical.

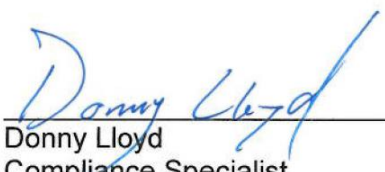
The PRECOlink RADIO is an IEEE802.15.4 wireless microcontroller module. The module has three antennas that operate in the 2.4 GHz band. The two 2.4 GHz integral internal antennas are a type PCB trace PIFA (planar inverted-F antenna) residing on a RF circuit board with a realized gain of 2.7 dBi for antenna 1 and 4.6 dBi for antenna 2. The circuit board is then installed in a sealed plastic housing. The external antenna is a type dipole whip antenna that connects via a SMA connector on the outside of the housing. The gain for the external antenna is 3.0 dBi. The three antennas scan 15 channels for the least congested channel. The channel allocation is as follows. NOTE: PRECOlink does not use channel 26, the highest available channel in the band per the Zigbee standard.

| Channel | Center Frequency (GHz) | Channel | Center Frequency (GHz) |
|---------|------------------------|---------|------------------------|
| 11      | 2.405                  | 18      | 2.44                   |
| 12      | 2.41                   | 19      | 2.445                  |
| 13      | 2.415                  | 20      | 2.45                   |
| 14      | 2.42                   | 21      | 2.455                  |
| 15      | 2.425                  | 22      | 2.46                   |
| 16      | 2.43                   | 23      | 2.465                  |
| 17      | 2.435                  | 24      | 2.47                   |
|         |                        | 25      | 2.475                  |

The housing on each unit is the same, only the print on the label differs.

The sensors have the same circuit board, transmit power and Effective Isotropic Radiated Power (EIRP). Approval is being sought under FCC Part 15.247 (2.4 GHz).

Sincerely,



Donny Lloyd  
Compliance Specialist  
R & D Engineer  
PRECO Electronics, Inc