



To: Federal Communications Commission
7435 Oakland Mills Road
Columbia, MD 21046
USA

Date: 13-OCT 2023

Attn: Reviewing Engineer

Subject: REQUEST FOR FCC MODULAR TRANSMITTER APPROVAL
FCC ID: LCGUXR3XYEL

To Whom It May Concern:

Endress and Hauser SE Co. KG, hereby requests ☒ a modular / ☐ limited modular approval.

In CFR47 §15.212 "Modular Transmitters" and KDB 996369 D01 "Module Equip Auth Guide" there are following eight numbered requirements defined:

1. The radio elements must have the radio frequency circuitry shielded. Physical components and tuning capacitor(s) may be located external to the shield but must be on the module assembly.

Compliant – please refer to exhibit entitle "Internal Photos".
The RF portion is shielded by the metallized housing of the radome.

2. The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with part 15 requirements under conditions of excessive data rates or over-modulation.

N/A – this FMCW radar module does not need buffered modulation/data inputs.

3. The modular transmitter must have its own power supply regulation on the module.

Compliant – please refer to exhibit entitled "Schematics" – component N203.

4. The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per §§ 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b).

Compliant – please refer to exhibit entitled "EXT Photos", that show the permanently attached antenna.

5. The module must demonstrate compliance in a stand-alone configuration.

Compliant – please refer to exhibit entitled "Test Setup Photos".

6. The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number (KDB 784748).

Compliant – please refer to exhibit entitled “Lable Location Info”.

7. The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements.

Compliant – please refer to exhibit entitled “Test Report” showing the compliance results of §15.256.

8. The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.

Compliant – please refer to exhibit entitled “RF Exposure” and “User Manual”.

Yours sincerely,


Sabrina Berghahn
13.10.2023