



Emerson Automation Solutions
6021 Innovation Blvd
Shakopee, MN 55379
USA

12 January 2022

Attention:
Application Examiner
Re: Justification of Modular Approval
Applicant: Rosemount, Inc.
FCC ID: LW2-RM5801

Dear Application Examiner:

Modular Transmitter Model RM5800, FCC ID:LW2-RM5801,

Request is hereby submitted by Rosemount, Inc. to certify the Wireless Hart Radio Module RM5800 as a Limited Modular Transmitter under the FCC rules CFR47 Part 15.212. The following list shows compliance with several of the special requirements listed for modular approvals:

1. **“The modular transmitter must have its own RF shielding.”** The radio has a metal enclosure as can be seen in the photos.
2. **“The modular transmitter must have buffered modulation/data inputs.”** The module uses the Linear LTC5800-WHM radio chip and it has buffered input and outputs.
3. **“The modular transmitter must have its own power supply regulation.”** The LTC5800 IC has built in voltage regulation.
4. **“The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c).”** The module contains a MMCX connector that approved antennas can be connected. Antennas may only be installed by a professional installer.
5. **“The modular transmitter must be tested in a stand-alone configuration.”** The EUT was tested using a board to provide power and communication to the module necessary for testing. This does not meet the requirement for stand-alone configuration but does meet the requirement for Limited Modular Approval.
6. **“The modular transmitter must be labeled with its own FCC ID number.”** Per the FCC ID label and location exhibit, the FCC ID is permanently affixed to the module. If the FCC ID number will not be visible when the module is installed inside a host device, another label with the FCC ID will be applied to the exterior of the host device.
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.”** See the test report and the user manual with the integration instructions.
8. **“The modular transmitter must comply with any applicable RF exposure requirements.”** The EUT is compliant with all applicable RF exposure requirements. Please see RF Exposure Exhibit.

Sincerely,

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