

Information about the Applicant

Company Name	Flow Metrix, Inc.
Address	2 Clock Tower Place
City, State, Zip	Maynard, MA 01754
Requested By	Paul Lander
Job Number	FLOW0002
Model	MLOG
FCC ID	RIC-MLOG01
Agent	Northwest EMC, Inc.
Approval Type	Certification
Equipment Type	Low Power Unlicensed Transmitter
Rule Part	15.247

Overview

The MLOG operates in the 902 – 928 MHz band with a peak output power of 21.38 mW EIRP. It is a hybrid spread spectrum transmitter that utilizes five hopping channels. The radio is part of a data logger that is installed on water service pipes. The device is housed in a plastic waterproof enclosure. It is battery operated with no provision for connection to the AC mains either directly, or indirectly from another device. The radio utilizes a single integral PCB etch antenna. This configuration satisfies the requirements of 47 CFR 15.203. The receiver portion of this radio transceiver has been verified to FCC 15B.

The approval for this type of device is being approved as outlined in the FCC Public Notice of May 16, 2002.

Recommendation

All items have been resolved and completed to my satisfaction; therefore I recommend this application for approval.



Dean Ghizzone, President

November 19, 2004

Date

Findings and Resolution

Item	In the FCC interpretation provided on similar products the " <i>the start frequency is not always the same</i> ". There is no reference in the provided product description.
Resolution	The client has provided an updated product description
Item	
Resolution	
Item	
Resolution	
Item	
Resolution	

Opinion

Specification Requirements	Description
15.247(b)(5)	RF Exposure

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted an RF Exposure exhibit demonstrating compliance.

Reference: RF Exposure Exhibit

Specification Requirements	Description
15.247(a)	Occupied Bandwidth

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: Technical Report

Specification Requirements	Description
15.247(b)(3)	Power Output

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: Technical Report

Specification Requirements	Description
15.247(c)	Spurious Emissions, Antenna Conducted

Opinion: N/A.

Discussion: The equipment has a permanently attached antenna. Spurious emissions were performed using the radiated method.

Reference: N/A

Specification Requirements	Description
15.247; 15.205; 15.209	Spurious Emissions, Radiated Emissions

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: Technical Report

Specification Requirements	Description
15.247(d)	Power Spectral Density

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: Technical Report

Specification Requirements	Description
15.207	Conducted Emissions

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: Battery powered device, no conducted emissions required.

Reference: N/A

Specification Requirements	Description
15.247	Minimum Channel Separation

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The operational description shows the equipment meets the requirements shown above.

Reference: Operational Description, Technical Report, and e-mail from Joe Dichoso

Specification Requirements	Description
15.247	Pseudorandom hop sequence

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The operational description shows the equipment meets the requirements shown above.

Reference: Operational Description and e-mail from Joe Dichoso

Specification Requirements	Description
15.247	Equal use of each frequency

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The operational description shows the equipment meets the requirements shown above.

Reference: Operational Description and e-mail from Joe Dichoso

Specification Requirements	Description
15.247	Band Edge Compliance

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: Technical Report

Specification Requirements	Description
15.247	The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The operational description shows the equipment meets the requirements shown above.

Reference: Operational Description and e-mail from Joe Dichoso