



Excellence in Compliance Testing

Certification Exhibit

**FCC ID: SM6-LMXR
IC: 9235A-LMXR**

**FCC Rule Part: 15.247
IC Radio Standards Specification: RSS-247**

ACS Project Number: 15-0247

**Manufacturer: Mueller Systems, LLC
Model: Repeater Plus Module**

Manual



LMXR

Installation Manual

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FCC Information:

Changes or modifications not expressly approved by the Mueller Systems could void the user's authority to operate the equipment.

IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 34 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

"NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IC Information

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This radio transmitter, IC: 9235A-LMXR, has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

- Antenna 1: Dipole, 6dBi gain
- Antenna 2: Printed Inverted F, 4.8dBi gain
- Antenna 3: $1/2\lambda$ Monopole, 2.5dBi gain
- Antenna 4: Whip, 5.0dBi gain

Cet émetteur radio, IC: 9235A-LMXR, a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous avec le gain maximal admissible indiquée. Types d'antennes ne figurant pas dans cette liste, ayant un gain supérieur au gain maximum indiqué pour ce type, sont strictement interdits pour une utilisation avec cet appareil.

- Antenne 1 : dipôle , le gain 6dBi
- Antenne 2 : Imprimé F inversé , le gain 4.8dBi
- Antenna 3: $1/2\lambda$ monopôle, le gain 2.5dBi
- Antenna 4: whip, le gain 5.0dBi

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

1. Introduction

The Mueller Systems LMXR is intended for indoor and outdoor use as an unattended Automatic Metering Infrastructure (AMI) and control device. The LMXR is fully self-contained and battery powered device with no user accessible controls.

The LMXR's function is to allow remote access to Mueller Systems RF enabled AMI devices for the purpose of data collection, configuration and management.

The LMXR module can only be installed in Mueller Systems equipment and is not available for sale as a separate product.

The contents of this installation manual are intended for technically qualified personnel who have been trained and are technically qualified in the installation of this device.

2. Maintenance

There are no user serviceable items within the LMXR product. No cleaning is required.

3. Product Labeling

3.1 FCC/IC Identification Label

This label is affixed to the LMXR unit.

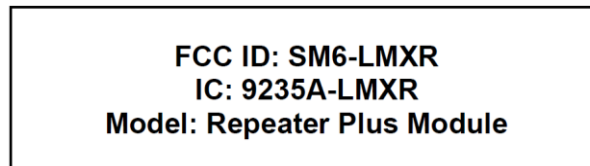
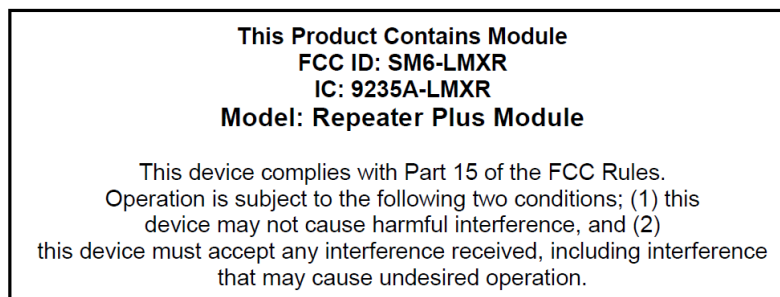


Figure 1. Product Identification Label

3.2 Product Identification

This label is affixed to the side of any enclosure that contains the LMXR module.



4. Antennas

Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

- Antenna 1: Dipole, 6dBi gain
- Antenna 2: Printed Inverted F, 4.8dBi gain
- Antenna 3: $1/2\lambda$ Monopole, 2.5dBi gain
- Antenna 4: Whip, 5.0dBi gain