

UWMR User Guide

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0.3	10/4/2011	ECP	Added new label drawings

Reviewers

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1. FCC Information

Changes or modifications not expressly approved by 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 42 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.

2. Introduction

The Mueller UWMR (Universal Water Meter Receiver) is intended for mobile use as an Automatic Metering Reading (AMR) device. The UWMR product consists of the UWMR box, antenna, power cable, and serial cable. In addition, if the user desires, the UWMR allows connection to a Mueller StreetMachine with the addition of a short RF coaxial cable, a short serial to serial cable, and a short power cable.

The contents of this installation manual are intended for technically qualified personnel who have been trained and are technically qualified in basic electrical principles.

3. Supported Products

• Mueller StreetMachine

4. Maintenance

There are no user serviceable items within a UWMR. No cleaning is required.

5. Connector Description

5.1 Main Power (DC input)

12VDC, +/- 15% 1A

5.2 Power StreetMachine (DC output)

12VDC

5.3 USB Transmitter (USB)

USB interface for controlling the UWMR Transmitter.

5.4 USB Receiver (USB)

USB interface for receiving data from the UWMR Receiver.

5.5 Serial StreetMachine (serial interface)

Standard DB9 RS232 interface to connect to the StreetMachine with the following configuration:

- Bits per sec: 38400
- Data bits : 8
- Parity: None
- Stop Bits: 1
- Flow control: none

5.6 TNC StreetMachine (902MHz to 928MHz RF Output)

RF Output from 902MHz to 928MHz that provides a connection to the StreetMachine TNC antenna input.

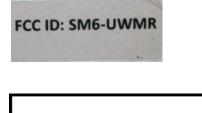
5.7 TNC Antenna

RF antenna connection to the UWMR, used for both the receiver as a 902MHz to 928MHz RF Input and the transmitter as a 952MHz to 960MHz Output.

6. Product Labeling

6.1 FCC Identification

The UWMR shall have four labels



Trade Name: UWMR Model Number: UWMR

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING

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 42 cm from all persons and must not be co-located or operate in conjunction with any other antenna or transmitter.