MT2W-MKTM

Long-Range Synthesized Radio Meter Transmitter

Installation Manual





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Book

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software. (See the MT2W-MKTM Programming Guide) or by the FTU.

4.2. **Meter Input:** The meter input is a two wires cable. These wires connect to the meter output.

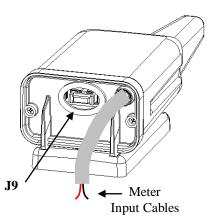


Figure 1: MT2W-MKTM View

Wall Mounting Installation

 Fasten the mounting bracket on the wall with four screws (See figure 2)

2. On-Pipe mounting

- 2. Slide the MT2W-MK unit on the mounting bracket until the 4 clips are locking the unit
- 3. Define the parameters with the field programmer (FTU100) see the FTU User Guide
- 4. Insert the terminator to J9 (See figure 1)
- 5. Put the cover

On-Pipe Mounting Installation

- 1. Fasten the mounting bracket on the pipe with two screws and the "Omega" bracket (See figure 3)
- 2. Slide the MT2W-MK unit on the mounting bracket until the 4 clips are locking the unit
- 3. Define the parameters with the field programmer GUP application.
- 4. Insert the terminator to J9 (See figure 1)
- 5. Put the cover

MT2W-MK™ General Description

MT2W-MKTM is a long-range, synthesized radio-metering transmitter in the VHF 450-470 MHz frequency range..

When the MT2W-MK detects pulse conditions at one or more of its inputs the pulse is counted and saved.

When the number of the pulse is equal to the Trans Scale defined by the GUP10TM, it is then transmitted to the central station according to the WAT-NETTM protocol selected for the system in operation.

MT2W-MKTM has one connector (see Figure 1).

1. **J9:** The 10-pin programming jack is a serial port to connect a PC or a FTU (see Figure 1).

Unit parameters and meters values are easily programmed using Gup10TM utility-programming

Preparing for Operation

Before installing the MT2W-MKTM on site, perform the following preparations:

- 1. Setting communication parameters
- 2. Self test

Setting Communication Parameters

 Connect GUP10 program to the MT2W-MKTM (see the MT2W-MKTM programming guide)

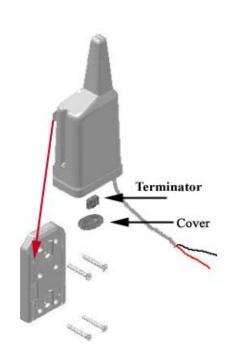
Self-Test

In order to perform a self-test please see the Field Programmer User Guide.

Installing the MT2W-MK

There are two mounting methods:

1. Wall mounting



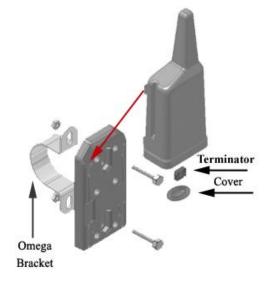


Figure 3: On-Pipe Mounting

Restrictions:

- 1. Do not mount the unit on any kind of metal surface.
- Do not mount any input cable next to the antenna (see figure).

Meter types:

- 1. There are two main types of meters:
- 2. Meters that produces a 'Passive Pulse'.
- 3. Meters that produces an 'Active-Pulse' (known also as-''Pulse Generator').

Wiring:

- 1. Connect the two polls of the Meter input cable to the meter using a self-stripping insulated connector (like 3M-Scotchlock or equivalent).
- 2. Polarity: if a 'Passive Pulse' type meter is connected, there is no polarity so the wires can be connected in any order, if an 'Active Pulse' type meter is connected, there is a polarity and the wires have to be connected in the following order: Red wire to the POSITIVE (+) poll and the Black wire to the NEGATIVE (-) poll, (see figure 4).

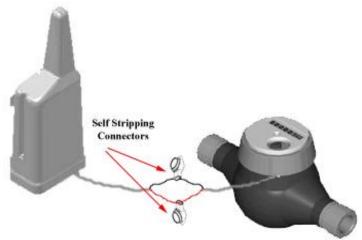


Figure 4: Wiring

Technical Specifications:

Operating Voltage	8–15 VDC
Standby Current	30μA max.
Tx Current	0.8A max.
Power Output	3W
Freq. Stability	±0.5ppm at
	operating temp.
	range
Operating Temp.	-22°F ÷ 120°F
	$(-30^{\circ}\text{C} \div 60^{\circ}\text{C})$
Storage Temp.	-40°F ÷ 158°F
	$(-40^{\circ}\text{C} \div 70^{\circ}\text{C})$
Weight	0.5 lb.
	(230 gr.)

THE MANUFACTURER IS NOT
RESPONSIBLE FOR ANY RADIO OR
TV INTERFERENCE
CAUSED BY UNAUTHORIZED
MODIFICATIONS TO THIS
EQUIPMENT. SUCH
MODIFICATIONS COULD VOID
THE USER'S AUTHORITY TO
OPERATE THE EQUIPMENT.

RF EXPOSURE INFORMATION:

The antenna gain used with this transmitter should be 0dBi or less. All persons should maintain a minimum safety separation distance of 45.45 cm (0.4545 m)