

MT150W™	
Long-Range Synthesized Radio Meter Transmitter	
Installation Manual	
KP ELECTRONIC SYSTEMS LTD	
Web Site: www.kpsystems.com	
ISRAEL Office Email: info@kpsystems.com Tefen Industrial Park, Tefen 24959 Tel: 972-4-987-3066 Fax: 972-4-987-3692	
USA Office: KP ELECTRONICS INC. Email: info@kpsystems.com 109 Tudor Drive, North Wales, PA 19454 Tel: (215) 542-7460 Fax: (215) 542-7461	
Book 95	Approved: Amir S. Rev: 01/11/04 01

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

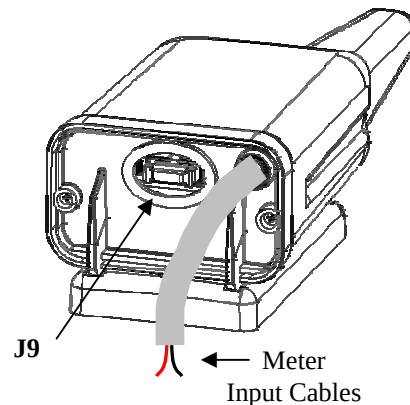


Figure 1: MT150W™ View

MT150W™ General Description

MT150W™ is a long-range, synthesized radio-metering transmitter in the VHF 172-174 MHz frequency range.

When the MT150W 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 GUP10™, it is then transmitted to the central station according to the WAT-NET™ protocol selected for the system in operation.

MT150W™ 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 Gup10™ utility-programming software. (See the MT150W™ Programming Guide) or by the FTU.

Preparing for Operation

Before installing the MT150W™ on site, perform the following preparations:

1. Setting communication parameters
2. Self test

Setting Communication Parameters

- Connect GUP10 program to the MT150W™ (see the MT150W™ programming guide)

Self-Test

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

Installing the MT150W

There are two mounting methods:

1. Wall mounting
2. On-Pipe mounting

Wall Mounting Installation

1. Fasten the mounting bracket on the wall with four screws (See figure 2)
2. Slide the MT150W 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

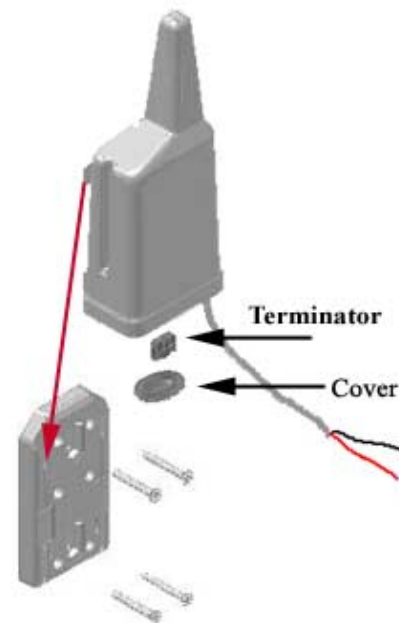


Figure 2: Wall Mounting

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 MT150W 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

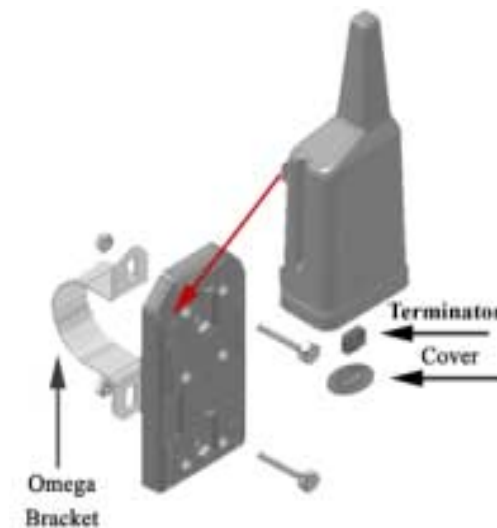


Figure 3: On-Pipe Mounting

Restrictions:

1. Do not mount the unit on any kind of metal surface.
2. 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).

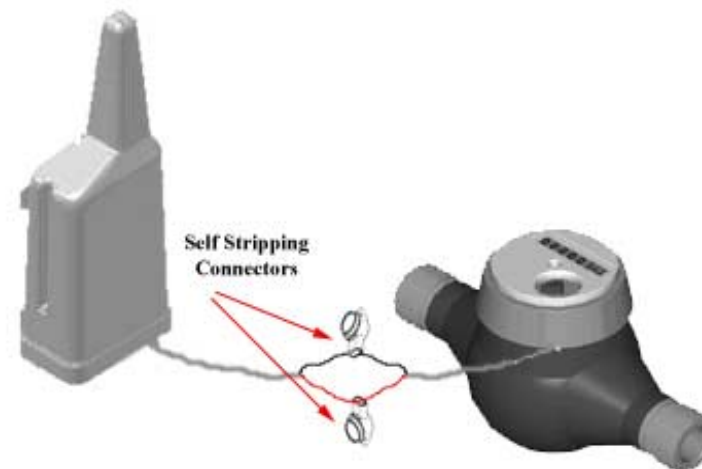


Figure 4: Wiring

Technical Specifications:

Operating Voltage	8–15 VDC
Standby Current	30μA max.
Tx Current	0.8A max.
Power Output	2W
Freq. Stability	±5ppm at operating temp. range
Operating Temp.	-22°F ÷ 120°F (-30°C ÷ 60°C)
Storage Temp.	-40°F ÷ 158°F (-40°C ÷ 70°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.