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End point

Battery Operated Single Meter RF Module

User Manual

Version 1

6/10/2011





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General Description:

EndPoint is a miniature unit designed specifically to connect an individual meters to an AMI backbone over the Mobix patented n-Dimensional Network.

This low cost, battery powered unit utilizes non-licensed RF thus the most economical and efficient way to provide two-way communications with a smart meter.

At the core of the unit is a powerful Micro Controller driving the physical two-way RF interface, the meter pulse collection and the optional valve control.

The EndPoint's adaptable RF layer is capable to transmit in several different standards (e.g., compatible with W-Mbus, ZigBee 915). EndPoint is a node in the mesh network formed by the Mobix n-Dimensional network.

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*The EndPoint in the n-DNET system
Complex:*





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<p><u>RF</u></p> <ul style="list-style-type: none"> ✓ Complies with FCC regulations ✓ Compatible with standard RF protocols ✓ Frequency 240–930 MHz ✓ Sensitivity = –118dBm ✓ Modulation: FSK, GFSK, and OOK modulation ✓ Max Output Power 20dBm ✓ Low Power Consumption <ul style="list-style-type: none"> a. 18.5mA receive b. 27mA transmit ✓ Data Rate 1-128 kbps 	<p><u>Misc.</u></p> <ul style="list-style-type: none"> ✓ MCU: including 4KB flash ✓ RTC (inside the MCU) ✓ RF micro for 2-way communication ✓ 1 LED ✓ 2 I/Os: 1 pulse inputs, 1 alarm inputs (like pulse) ✓ Low power consumption
<p><u>Input / Output</u></p> <ul style="list-style-type: none"> ✓ One dry contact/transistorial input (from a meter), and one alarm (dry contact) input. It protected from external pikes from the line to the meter. 	<p><u>Power supply</u></p> <ul style="list-style-type: none"> ✓ A field replaceable battery supplies the power for 7 to 20 years ✓ Power supply 3.0-3.6V
<p><u>Dimensions</u></p> <ul style="list-style-type: none"> ✓ 15x32 mm ✓ Designed to fit the internals of a water meter 	<p><u>Serial interface</u></p> <ul style="list-style-type: none"> ✓ USART 3V TTL

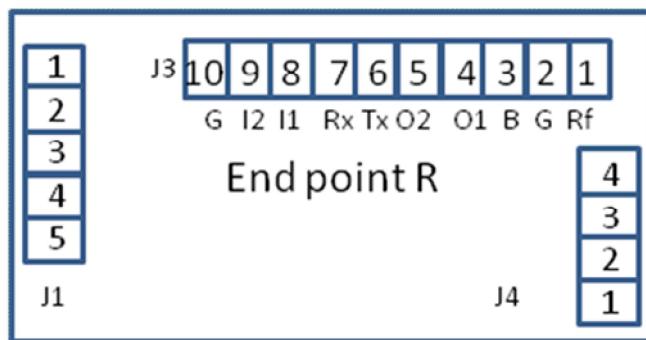


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Installation

1. Bolt the unit to the wall using the two mounting points
2. Connect the wires from the meter to the internal pins on J3 of the endpoint as follows:
 - Pulse output from meter to pin 8
 - Alarm output to pin 9
 - Valve - to pin 4
 - Valve + to pin 5



FCC Warning

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.

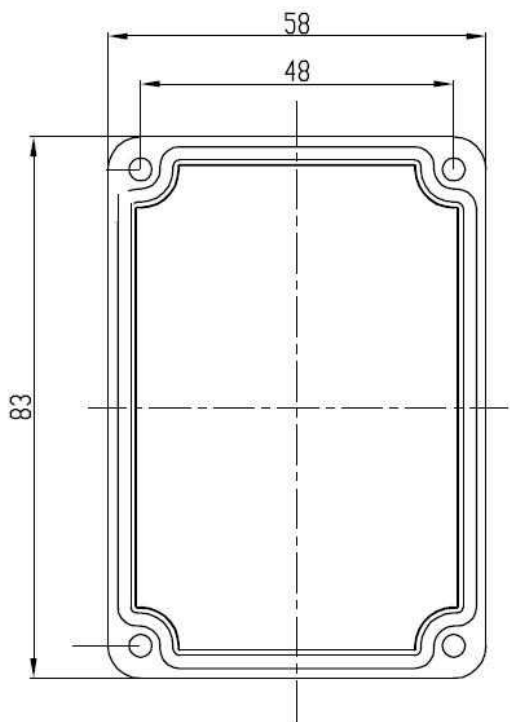


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1. Appendix 1

Endpoint external box





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Appendix 2

Endpoint installation points

