

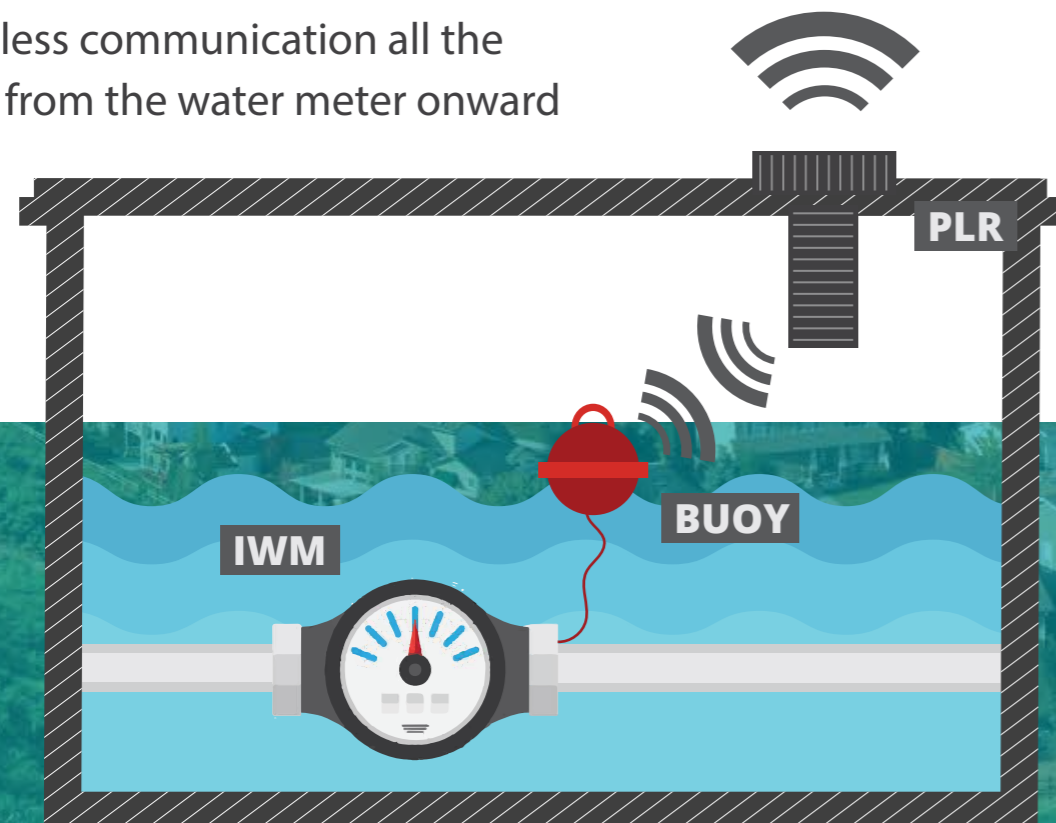
# WIRELESS PIT METER TRANSMITTER UNIT (WPM) Patent Pending

The wireless PIT Meter Transmitter Unit (WPM) is a complete wireless solution for reading the water meter data while the meter can be totally submersed in water.

While radio wave propagation in water and out of the water into the air, is very limited in range, the WPM solution using a buoy with an antenna inside, while floats on top of the water in the PIT, enables wireless communication all the way from the water meter onward

to the WPM repeater, which in turn communicates to and from the radio network gate way.

The fixed radio networks covers the whole city, enabling thousands of water meters to be remotely read and their data processed for billing and many other usages.



## THE SYSTEM INCLUDES THREE ELEMENTS

1

**IWM**

*The integrated water meter which includes an on board short range radio transceiver, in the 2.4GHz ISM band, or any other frequency band, Called **IWM***

2

**BUOY**

*An Antenna built into a BUOY (float) that holds the antenna of the **IWM** floating at all times thus enabling a reliable short range communication between the **IWM** and the PIT lid repeater.*

3

**PLR**

*PIT lid repeater, called **PLR**, which communicates by radio waves over to and from a network gate way, over long distances of few miles.*