

Hydropulsar, Radio module



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Hydropulsar is a radio transmitter designed for remote reading of SENSUS water meters.

Hydropulsar is a radio transmitter designed for remote reading of SENSUS water meters. It can be attached to the mechanical house or apartment water meters with already built inductive HRI sensor. Therefore Hydropulsar is insensitive to external magnetic fields.

The Hydropulsar Radio transmitter is easy to install on the water meter. Readout of Hydropulsar Radio module can be performed with drive by / walk by system or through a fixed network application without additional configuration of the module. All communication with Hydropulsar Radio module is protected by AES-128bit encryption key. Typical battery lifetime is 10 years. With Hydropulsar Radio Module settings this period can be prolonged or shortened.

Communication

- Periodical Transmission of readings in different protocols (Wireless M-Bus OMS and or SENSUS RF).
- Programming parameters can be set through bidirectional radio communication.

With the AURA software Program, we can easily configure the configuration of the Hydropulsar radio module. Settings that can be configured on the field or at the factory are:

- Starting index of the water meter.
- Serial number of the meter.
- Warning for removing the module from the meter.
- The warning of excessive consumption.
- Warning for water moving in the water meter in the opposite direction.
- Battery status warning.
- Other parameters (period of transmitted readings, transmission protocol, current consumption or consumption at every end of the month,...).

Technical data

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| Communication protocol: | Wireless M-Bus OMS, CI, SENSUS RF |
| Frequency: | 868 MHz |
| Power of Transmission: | 5, 7 or 10 mW |
| Power Supply: | Lithium Battery 3.6 V |
| Radio Range: | 25-800 m (depending on the configuration of the module and the surroundings of the installation site) |
| Certificate of Conformity: | ETSI EN 301489-1 I.9.2, ETSI EN 301489-3 I.6.1, ETSI EN 300220-2V 2.4.1, EN 60950-1:2006 + A1:2010 + A2:2013 + A11:2009 + AL2:2011 |
| Operating Temperature: | -15... 50 ° C |
| Storage Temperature: | -20... 80 ° C |
| Class of protection: | IP68 |
| No. of configurable memory slots to save readings: | 15 |