Telemetry system
domestic hot and cold water
metering units

RusTechnology
Russian automation
technologies

www.rs-tech.ru
Our products

The company "RusTechnology" is a developer and manufacturer of energy-efficient equipment (intelligent telemetry blocks for domestic and industrial water metering units), as well as carries out design and implementation of integrated monitoring and control systems for water supply facilities.

Using the developed software of the upper level, the company "RusTechnology" integrates the systems into a single remote control over the territorially distributed objects of the water supply network.

- Autonomous telemetry complexes for the industrial and domestic sector.

- Control panels SCADA, Web-telemetry, communication software.

- Mobile applications for devices based on Google Android and Apple iOS.

Equipping gas distribution network objects, such as industrial and domestic water metering units, with telemetry systems, allows not only promptly receive reliable information from a large number of abandoned objects, but also significantly improve safety and operational reliability of the water supply system due to increased efficiency management and prevention of emergency situations.
Autonomous telemetry system for the cold/hot water metering based on the **BBT-5W** telemetry unit

Autonomous system for data collection from utility water metering stations based on the BBT-5W communication module (hereinafter telemetry system) is designed to monitor the operating parameters of household water meters and transmit the received information via the GSM / GPRS cellular communication channel to the data collection server and the workstation of the operator and other users of the telemetry system.

*The telemetry system based on BBT-5W application scheme:*

The telemetry system based on the BBT-5W unit automatically transmits the accumulated volume of gas consumption via the GPRS communication channel to the data server in the automatic mode.

*The BBT-5W unit is powered by an autonomous power supply (lithium battery) located inside the casing, which ensures autonomous operation of the telemetry system for at least 5 years in the regular mode.*
## Telemetry Units BBT-5W:

<table>
<thead>
<tr>
<th>Feature</th>
<th>BBT-5W</th>
<th>BBT-5W2X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>Telemetry unit for domestic water meters with autonomous power supply</td>
<td>Telemetry unit for domestic water meters with autonomous power supply (add. storage battery 2x)</td>
</tr>
<tr>
<td>Operating conditions:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>– ambient temperature, °C</td>
<td></td>
<td>from –20 to +45</td>
</tr>
<tr>
<td>– relative air humidity at a temperature up to 35 °C without condensation of humidity, %</td>
<td></td>
<td>up to 95</td>
</tr>
<tr>
<td>Average service life, years</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>Mean time between failures, h</td>
<td></td>
<td>60000</td>
</tr>
<tr>
<td>Frequency bands, MHz</td>
<td>GSM-GPRS 850/900/1800/1900</td>
<td></td>
</tr>
<tr>
<td>Output power:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>– Class 4 (850/900 MHz), W</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>– Class 1 (1800/1900 MHz), W</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Data transfer</td>
<td>GPRS Class 12V, TCP/IP protocol</td>
<td></td>
</tr>
<tr>
<td>Number of counting channels</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Overall dimensions, mm</td>
<td>52<em>25</em>43</td>
<td>52<em>25</em>63</td>
</tr>
<tr>
<td>Weight, g, not more than</td>
<td>110</td>
<td>160</td>
</tr>
</tbody>
</table>
The BBT-x unit provides data transmission on hot/cold water consumption to the supplier’s server through the GSM digital cellular radio network in packet (GPRS) mode.

The unit is manufactured in the climatic version of UHL category 3 according to GOST 15150-69.

On the resistance to mechanical influences the unit belongs to the group of performance N1 according to GOST R 52931-2008.

According to the degree of protection from the environment, the unit corresponds to IP 52 according to GOST 14254-96.

The unit is powered by an autonomous power supply with a voltage of 3.7 V.
Server software and telemetry system user interface

The core of the dana server operating system is built on the basis of a freely distributed Linux OS and does not require licensing. It is possible to install on existing enterprise servers in the virtual server version, without purchasing new server hardware.

The server software comes with open source code and can be accompanied and modified by the Customer independently. As a database, a free Postgre SQL DBMS is used, which allows you to scale up the collection servers within a city-region-country.

End users are authorized in the telemetry system via a Web browser and can view monthly archives by consumption (meter readings) from anywhere in the world with access to the Internet.

It is possible to display the received indications (data) both in the form of tables and graphs. Export is carried out manually or automatically in the formats XLS, PDF and 1C.

The BBT-5W telemetry system users can also download free mobile applications developed by our specialists for remote viewing of data on the consumption of resources from their mobile devices running Apple iOS or Google Android.
Reliable partnership

Our company is focused on long-term cooperation, we are actively investing in the production of modern equipment and development of the latest software products, guaranteeing our customers a quality after-sales service that includes technical support and service maintenance of complex automated systems.

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