

Telemetry units **vdTEL**

V.A.D. Technical Engineering and Investment GmbH

Autonomous wireless DATA COLLECTION SYSTEM

The automated data collection system (**ADCS**) on gas (water, electricity) consumption from municipal and industrial accounting points based on vdTEL-G3 communication units (telemetry system) is designed to monitor the operating parameters of household gas metering and transmission of received information using **GSM/GPRS** and **NB-IoT** standards on the data collection server, operator AWP's and other telemetry system users.

The system includes:



Wireless telemetry units (vdTEL) for the municipal and industrial sectors

Server for collecting, processing and transmitting information to the resource provider billing system

User Interface front-end software for Windows, Linux, iOS and Android

More than 10,000 units installed, monthly readings are automatically transferred to the server for collecting and processing information.

 You need no more than 5 minutes of computer work to import data from a billing system.

The system allows you to monitor gas consumption and generate current payment bills for actually consumed gas based on operational data.

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Key Benefits of the System:



Full automation of gas metering

Absence of unreliable data and additional services in customer halls. Possibility of self-monitoring of gas consumption, viewing flow graphs, notifications.



Universal software solution

Telemetry blocks do not need additional settings and programming, internal software is adapted to work in all regions of Europe



Improved security of gas supply

It is achieved due to prompt and reliable information about gas consumption, selfcontrol by subscribers through the mobile application.



Free server software

The use of server software is provided free of charge for the entire period of the devices operation.



Telemetry blocks do not require additional power, physical communication lines and wire laying.



Household TELEMETRY UNITS



NB-IoT standard support

Support for the new **NB-IoT data transfer standard** in conjunction with the old EDGE and GPRS allows you to operate the product both on new and old GSM stations of mobile operators.

The use of NB-IoT will **significantly increase the products service life** by reducing the radiated power in comparison with GPRS.



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Alarm, temperature & pressure WIRELESS SENSORS



Telemetry unit with control valve

Transfer of gas consumption data via GSM channel and remote control of the valve depending on the state of the subscriber's personal account.

✓ Definition and indication of the valve position by pressing the control button.

 Close the valve by a command from the server, a request to open by long pressing the control button.

✓ Valve opening / closing time is not more than 1 s.



Collection and Data Processing **SERVER**

Server software comes with OpenSource code and **can be supported and modified** by the Customer

independently.

🕥 pen source

PostgreSQL

As a database, a free **Postgre SQL** DBMS is used, which allows you to scale up collection servers within a city-regioncountry and does not require any additional licenses.

Free of charge seminars are regularly held for users of the server software, as well as consultations on the hotline phone.

End users are authorized in the telemetry system via a web-browser and can view monthly archives on the consumption of natural gas from any location with access to the Internet.

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Free Mobile APPLICATION

We offer a modern, functional application for **Google Android** and **Apple iOS** mobile systems with a convenient, intuitive user interface.











About Us

The company "V.A.D. Technical Engineering and Investment GmbH" is a developer and a manufacturer of energy-efficient equipment (intelligent telemetry units for residential and industrial gas metering devices), as well as design and implement complex monitoring and control systems for gas supply facilities.

> Using the developed software of the top level, the company "V.A.D. Technical Engineering and Investment GmbH" integrates the systems into a single remote control and monitoring over the territorially distributed objects of the gas supply network.



energy solution Secure data collection, storage and analysis



advanced solutions for automated control systems **Telemetry system for** the domestic sector



best implemented project

Telemetry system for gas supply facilities



system



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