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Ярославль (4852)69-52-93

<https://grant.nt-rt.ru> || [gtq@nt-rt.ru](mailto:gtq@nt-rt.ru)

## Регистраторы данных dataTaker серии DT90



Compact and low power, meet the DT90 Series of data loggers. Designed for companies in need of universal and low power data logging solutions, this compact data logger is cost effective, yet packs all the necessary features for logging your data.

The DT90 Series has been designed with an emphasis on low power, small size and ease of deployment. This logger is ideal for your remote monitoring environmental and industrial applications. There are two models available – the DT90L and DT90N. The DT90N is perfect for setting up small stations that require multiparameter sensors that only have a digital output. The DT90L is designed for multiparameter applications and can interface with both analog and digital sensors. Both options in this series share the same kernel board and core functionality.

### Compact, all-in-one monitoring

The DT90 series of data loggers are compact, all-in-one monitoring modules with an integrated modem, specifically designed for remote applications. The rugged design and wide operating temperature range provides reliable operation in virtually any environment. These are low-power and cost effective data loggers with a dedicated mounting handle for a simple and quick installation process.

Data retrieval and device configuration are available via USB interface for on-site communication. You can also use the automatic data delivery feature to send logged data to an FTP server at regular intervals. Alarm configurations can trigger SMS messages to multiple mobile phones. DT90 programming software can easily take you through the setup of your logger and how you want the system to work, customised for you.

### **Main features and benefits:**

- **Ease of deployment:** Simple connectivity via USB on-site makes it easy to configure and test the deployed monitoring module
- **Universal:** Connects to any sensor. This universal logger can connect to any type of sensor. Analogue\*: voltage, current, RTD; Digital: SDI-12, MODBUS, pulses
- **Rechargeable lithium ion battery:** Up to 300 days run time on one charge and the ability to connect directly to solar power, making this logger the best solution for your remote monitoring applications
- **Robust:** With its solid aluminium case and fully waterproof probe (IP68 rated), this logger is suitable for harsh environments
- **Cost effective:** Low maintenance product. Minimal attention needed after setup

*\*For DT90L version*

### **Applications**

#### **Environmental (Hydrology – Meteorology):**

- Surface Water Monitoring
- Weather and Climate Monitoring
- Air Quality and Pollution
- Monitoring
- Environmental Research
- Flood Warning
- Agriculture and Soils Research/Monitoring
- Water Quality Monitoring
- Aquaculture

#### **Industrial:**

- Energy Monitoring
- Temperature Profiling
- Material Testing

- Level/Flow/Monitoring
- Design engineering

## DT90 Configuration Software

DT90 configuration software is an intuitive graphical interface that allows you to configure your data logger, view real-time data in charts and retrieve your historical data for analysis. This application runs directly from your PC and can be accessed via USB.

Features include:

- Simple Interface for programming
- Easy alarm setup
- USB connection
- Ability to download historical data
- Display data in chart or table
- Export data into a CSV file
- Firmware upgrade interface

## DataTaker<sup>®</sup> Live Software

Collect, Share, Process.

This powerful and versatile cloud service makes collecting, monitoring, analysing, sharing and storing information from your dataTaker easier.

- **Monitor:** Real-time remote access to measurements from anywhere at any time and allowing configuration changes for dataTaker loggers from your PC, smartphone or tablet
- **Store & Share:** Synchronise and save data to your personal cloud account. dataTaker Live dashboard lets you collaborate and share data
- **Collect:** Automatic data uploading from sensors, loggers or industrial gateways to your personal cloud service account
- **Analyse:** Data analysis with standard and custom scripts

## DT90 Series Options

DT90L (Lite)



This version uses a large 48 Wh integrated rechargeable lithium battery pack, and features both analog and digital inputs, with the whole design being fitted in a miniature 160 x 100 x 80 mm black powder-coated aluminum cast enclosure.

Work time example: sampling 1min gauge, transmission 1h, solar panel 2W. Ability to work all-year round.

- Analog Channels Up to 8 inputs with 16 bit resolution
- Voltage – Switchable range: 0-50 mV, 0-2.5 mV , 4 – 20 mA Current Loop
- RTD – Material supported: PT100
- Sensor Excitation – Outputs: 5V or 12V
- Digital Channels – Dedicated Counter Inputs, 3 pulse counters inputs
- SDI12 – 1 SDI12 input, up to 2 sensors @ 32 parameters
- MODBUS Client – Read data from MODBUS sensors/devices on RS232 port
- Power Supply & Physical Info – Internal Battery: Lithium 48 Wh  
Dimension:
  - 160 x 100 x 80 mm Weight: kg

### DT90N (Nano)



The DataTaker nano option uses a smaller 16Wh integrated rechargeable lithium battery pack when compared to the DT90L. It is all digital (no analog inputs), with the whole design being fitted in a miniature 100 x 70 x 38 mm black powder-coated aluminum cast enclosure.

Work time example: sampling 1min – rain gauge, transmission 1h, solar panel 2W. Ability to work all-year round.

- Digital Channels – Dedicated Counter Inputs, 3 pulse counters inputs
- SDI12 – 1 SDI12 input, up to 2 sensors @ 32 parameters

- MODBUS Client – Read data from MODBUS sensors/ devices on RS232 port
- Power Supply & Physical Info – Internal Battery: Lithium 16 Wh, Dimension: 100 x 70 x 38 mm, Weight: 700 g

## Specifications

### Scheduling of Data Acquisition

Number of channels: 26 (each has independent schedule setting)

Schedule Rates: 1 second to 24 hours

### Alarms

Conditions: High or Low Threshold

Number of conditions: 3

Action: Send SMS, increase/ decrease sampling rate or transmission rate

### Data Storage

Internal Non Volatile

Capacity: 16 MB (min 500,000 data points)

### Integrated Cellular Modem

Network Selection 4G

### Power Supply

External power: 5-25 Vdc

Solar panel: 9V or 12V

### Physical and Environment

Construction: Black anodized cast aluminium

Working temperature: -40°C – +70°C

Humidity: 0-100% RH (when the lid is closed)

Ingress of Protection: IP67

### Included Accessories

Resource USB (software + user manual)

USB communication cable

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