

CELLIZER-SYSTEMS



- ✓ Universal, for stationary (UPS) and mobile battery installations
- ✓ Resistance measurement (nominal 60V, optional 120V input range)
- ✓ Store up to 200000 sets of data
- ✓ Automatic data capture. Upload of complete battery definitions (f. e. all batteries of a power plant)
- ✓ USB (Mini5P) – Interface.
- ✓ RF-ID wireless battery identification
- ✓ BLUETOOTH (use of a headset)
- ✓ IRDA-Interface (density probe)
- ✓ 10 hours of continuous operation
- ✓ Bundled with a complete and powerful battery management software

Battery Tester

TMC – 2001RT

The **TMC-2001RT** is a professional handheld data logger. It is perfectly adapted to all battery related measurement tasks, such as block voltage and resistance measurements. Applying a temperature sensor or an electronic density meter enhances the functionality of the instrument significantly.

The **TMC-2001RT** provides sufficient analyze features on-site, to be able to introduce appropriate actions for maintenance if necessary. All stored measurement values can be reviewed.

Relevant information needed for testing, such as data for battery identification or permissible limit values can be completely downloaded into the data logger memory. The battery to test can be selected either by navigation through the stored database, or via the use of our automatic transponder identification. This ensures faultless synchronization when uploading measurement values into the computer.

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Analog section

	Range	Resolution
Voltage	± 75 VDC	10 mV
	± 24,5 VDC	1 mV
	± 2,45 VDC	0,1 mV
Resistance (1,8V - 60V)	1000 mΩ	10 μΩ
	3000 mΩ	100 mΩ

- Temperature:
Optional IR-temperature sensor
- Density:
Optional density meter DMA35

Interfaces

- Bluetooth
- USB
- IRDA (Density meter)
- Transponder – System
(RF – Battery identification)

Transponder Tags (optional)



Software

Comprehensive battery management software is included in the delivery scope of the **TMC-2001RT**.
View the history of measured data; detect accelerated aging processes of battery blocks in an early stage.

Scope of delivery

- **TMC-2001RT** data logger
- **Protective carrying belt**
- Battery charger (**TMC-2001RT**)
- One pair of test leads (4-wire)
- Battery Management PC Software
- Transport case

Dimensions (L x W x H)
243mm x 130 / 90mm x 60 / 40mm

Measuring Method

The **TMC-2001RT** is based on our **securePULSE™** internal resistance measurement technology. Unlike simple testers, **TMC-2001RT** uses a set of various linear current profiles to evaluate the internal resistance. These linear current ramps (up to 10A within 1-1000ms) are applied to the battery. The internal resistance is calculated out of the current ramp and the resulting voltage curve.

This method is extremely stable against noise coupling.

Higher test currents results in more reliable resistance readings.

The **TMC-2001RT** is not only controlling the current ramp, the system is watching the behavior of the internal cell resistance development while the current is increasing. If there is an unexpected increase in resistance, the load current will be turned off immediately.

This behavior is like an electronic fuse, to prevent the user from the danger of cell explosion!