



- ✓ Universal, for stationary (UPS) and mobile battery installations
 - ✓ Lightweight
 - ✓ Easy to use
 - ✓ **Resistance measurement** (up to 60V)
 - ✓ Store up to 2000000 sets of data
 - ✓ Automatic data capture. Upload of a complete battery database (f. e. all batteries of a power plant, workflow management, ...)
 - ✓ **USB** (Mini5P) – Interface.
 - ✓ **IrDA**-Interface (density probe)
 - ✓ 10 hours of continuous operation
 - ✓ Bundled with a complete and powerful battery management software
- Optional:
- ✓ **RF-ID** wireless battery identification
 - ✓ **BLUETOOTH** (use of a headset in noisy environments)

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. All measured data are shown on a bright color TFT-Display.

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 RF-ID transponder identification. This ensures faultless synchronization before uploading measurement values into the computer.

CELLIZER-SYSTEMS

Analog section

	Range	Resolution
Voltage	± 2,45 VDC	0,01 mV
	± 24,5 VDC	1 mV
	± 600 VDC	10 mV
Resistance	1400 mΩ	10 μΩ
(range depends on voltage applied, 1 μΩ intern. resolution)		

- Optional IR-temperature sensor

Interfaces

- USB
- IrDA (for Density meter DMA35)
- Bluetooth (Optional)
- RFID – Identification (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** applies a current profile to evaluate the internal

resistance. A test current ramp of up to 3A within 0,5ms is generated. The internal resistance is calculated out of the current ramp and the resulting voltage curve. Thanks to two integrated synchronous and high speed sampling A/D-converters.

This method is extremely stable against noise coupling.

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.

Additional notes

- Rechargeable battery pack. (10 hours of continuous operation)
- Together with the protective carrying belt, the **TMC-2001RT** is tailor made for maintenance work in industrial surroundings.



- Ask us for special customized versions. Test currents from 100mA up to 20A are possible.