



CS – 4001 Capacity Test System

During load tests of batteries, such as capacity tests, cell/block voltage values may change rapidly. This is the case for example at the start (voltage sag) and at the end of a discharge.

CS-4001 is a multi-channel test system, which can be connected to each cell/block. Furthermore it is possible to measure the battery's total voltage and the load current. The complete measuring points are automatically recorded within a couple of seconds. Capacity and load tests become more accurate, efficient and safer as when using manual systems. Especially the safety of the test personal becomes an issue during discharge tests. The use of **CS-4001** enables the test personal to keep a sufficient safety distance to the battery while testing.

The **CS-4001** can be operated as a stand-alone, or a remote controlled unit. During a test in the stand-alone mode, all relevant measurement data are shown on the build-in TFT-Display. The integrated Ethernet interface allows several **CS-4001** to be cascaded to test battery installations with a higher cell count. Thanks to the build-in Web-Server it is also possible to operate the **CS-4001** over the Internet. Battery definitions can be stored directly in the **CS-4001**. The integrated rotary push button makes data entries and function selections very easy. Internal stored data can be accessed like a USB-disk-drive.

CELLIZER-SYSTEMS

User Interface



Other

Power supply	115-230V, 50-60Hz, $\pm 10\%$
Operating temperature	+10°C – +35°C +50°F - +95°F
Storage temperature	+5°C – +50°C +41°F - +122°F

Application environment: The instrument is intended to be used in industrial environment

Warranty: 1 year

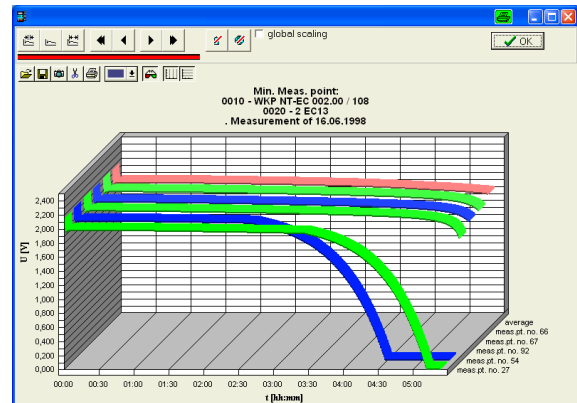
The above specifications are valid at nominal input voltage and an ambient temperature of +25°C (+77°F).

Specifications are subject to change without notice.

Scope of Delivery

- Instrument
CS-4001/127
- Data cable (serial)
- CS4001-LIGHT Software (CD)
- CS-MANAGER Software (CD)
- Manuals

Example: Graphical Analysis



Technical Data

No. of Measuring Inputs

CS - 4001/127	
Cell/Block-voltage	127
Total voltage	2
Current	2
Temperature	2

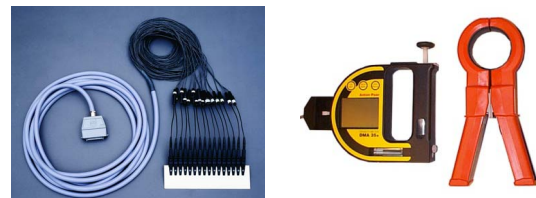
DC Measuring Ranges

Input	Range
Cell/Block voltage	3V/15V
Total voltage	75V/600V
Current (via Shunt)	60mV/1V

Resolution/Accuracy

Range DC	Resolution	Accuracy
3V	1,00 mV	$\pm 0,05\% \pm 2$ Digits
15V	1,00 mV	$\pm 0,05\% \pm 2$ Digits
75V	10,0 mV	$\pm 0,10\% \pm 2$ Digits
600V	100 mV	$\pm 0,10\% \pm 2$ Digits
60mV	0,01 mV	$\pm 0,10\% \pm 2$ Digits
1000mV	0,10 mV	$\pm 0,10\% \pm 2$ Digits

Optional Accessories



- Multi cable MKB-16/250 for 16 measuring points, max. 250V
- Electronic probe for spec. Gravity