

CB-2000

Portable Capacitance Meter

ABB's newly developed capacitance meter CB-2000 is characterized by its compact design and low weight, which makes it easy to carry when conducting measurements. No mains connection is required. The collected measurement values can be easily transferred to a PC for storage and analysis. The stored values from the PC can just as easily be transferred to the meter so that they are available when new measurements are made.

Measuring capacitance is an important part of the regular maintenance of capacitor banks. With the CB-2000, even large capacitor banks can be measured quickly and easily because no internal disconnections are necessary within the capacitor bank.

The CB-2000 is simple to use and easy to carry using the supplied shoulder strap. The measured values are clearly presented on the LCD display, which can be read both in daylight and in dark environments.

Measurement principle

The test signal is generated from the installed rechargeable battery pack or power adapter and connected to the measurement object with two voltage clips. The test voltage is 1.1–1.4 V. The test current is measured using a clip-on

transformer that is easily positioned around the capacitor's bushing. For each measurement, the capacitance value, time and temperature are registered. The meter can handle data from five measurements per measurement object.

Analysis on PC

The CB-2000 is supplied with a program that enables the transfer of data to and from a PC via a USB cable.

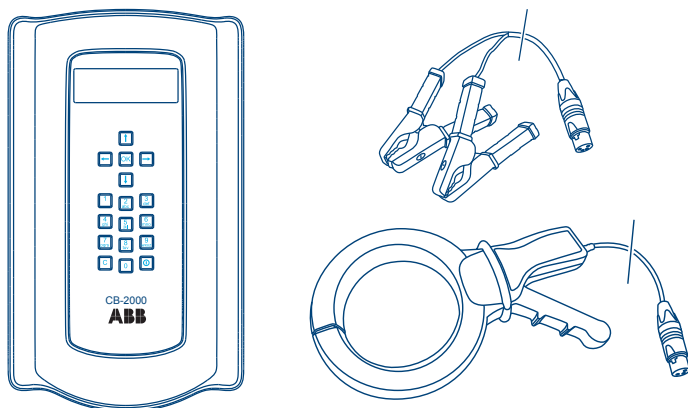
Prior to measurement, the CB-2000 can be prepared by uploading data from a previously conducted measurement. After the measurements are made, the measurement values can be stored and analyzed on a PC. Measurement data is saved as tab-delimited text, which can be opened in Excel or similar spreadsheet programs.

Support and downloads

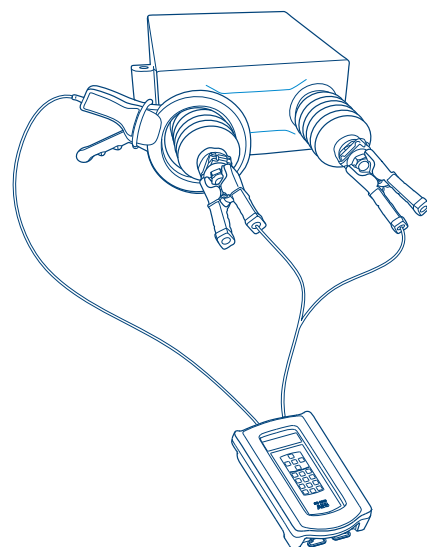
Please visit www.abb.com/powercapacitors for more information and support. Here you find the user's guide in different languages and also possibility to download the latest software.

Measurement data

Measuring range	0 – 1000 μ F
Measurement accuracy	\pm 1.0%
Maximum load	2000 μ F
Test voltage	1.1 – 1.4 VAC pk – pk, 40 – 160 Hz
Weight (CB-2000)	2.4 kg
Operating time	More than 8 hours



The capacitance meter is delivered complete with clip-on transformer, voltage clips, rechargeable NiMH-battery pack, power adapter, extra battery holder, USB-stick with software, casing and manual.



Measuring principle