

CAPO 2.5

Capacitance and Dissipation Factor measurement



The CAPO 2.5 is a powerful and precise capacitance and $\tan\delta$ / power factor test instrument designed for the insulation properties measurement. Many kinds of insulations such as power transformer insulation can be measured for diagnosing or preventive maintenance.

It is a unique, battery-operated instrument, built into a portable rugged case, making it perfect for field use. It can perform measurements of Insulation Power Factor ($\cos\varphi$), Dissipation Factor ($\tan\delta$), Capacitance, Inductance, Excitation current, Quality Factor and Power Loss (watts). The measurements can be made up to 2.5kVAC at a variable frequency from 10Hz to 400Hz. Later, the results can be converted to 10kVAC test voltage equivalent.

In addition to precision, the CAPO 2.5 provides useful tools such as the plotting tool on the colour touch display which be helpful for better diagnosing. The results can be stored in internal or external memory, can be transferred to the Raytech T-base pro software or simply can be printed by using the built-in thermal printer.

**Temperature**

Operating	-10°C to 55°C
Storage	-20°C to 70°C
Abs. Input Voltage	90 to 264 VAC, 47-63 Hz
Output Voltage	0 to 2500 V @ 10-400 Hz

Measured values

Dissipation Factor $\tan\delta$
Power Factor $\cos\varphi$
Capacitance
Inductance
Quality Factor
Power (Watts)
Power @10kV

Measurement Parameters

Range	Accuracy	Resolution
Dissipation Factor $\tan\delta$	$\pm 0.5\% \text{ Rdg} \pm 1 \times 10^{-4}$	1×10^{-5}
	$\pm 0.5\% \text{ Rdg} \pm 1 \times 10^{-4}$	1×10^{-4}
	$\pm 0.5\% \text{ Rdg}$	3 Digits
Power Factor $\cos\varphi$	$\pm 0.5\% \text{ Rdg} \pm 1 \times 10^{-4}$	1×10^{-5}
	$\pm 0.5\% \text{ Rdg} \pm 1 \times 10^{-4}$	1×10^{-4}
Capacitance @ 50 Hz	$\pm 0.3\% \text{ Rdg} \pm 0.3 \text{ pF}$	0.01 pF or 5 Digits
@ 60 Hz	$\pm 0.3\% \text{ Rdg} \pm 0.3 \text{ pF}$	0.01 pF or 5 Digits
	$\pm 0.3\% \text{ Rdg} \pm 0.3 \text{ pF}$	0.01 pF or 5 Digits
Test Voltage	$\pm 0.5\% \text{ Rdg} \pm 1 \text{ V}$	1V
Test Current	$\pm 0.3\% \text{ Rdg} \pm 1 \mu\text{A}$	0.1 μA or 4 Digits
Output Power		
Output Frequency	$\pm 0.01\%$	0.1 Hz

Specifications**Model**

CAPO 2.5

Size

L: 521mm (20.5")
W: 432mm (17")
H: 216mm (8.5")

Weight

22.2 kg (48.9 lbs.)

Interfaces

USB 2.0 full speed (1 host, 1 device)
and 9 Pin RS232 serial

Memory Storage

Internally stores more than
10 000 test results

Panel Display

5.7" Color LCD with LED back lighting

Features

- Battery operated, world unique
- Built-in Standard Capacitor
- Test Frequency 10 Hz - 400 Hz
- Easy export of results by USB key
- External switch for safe operation
- Internal thermal printer

Accessories

- Cable bag
- HV Cable 1 x 10m
- Measurement Cables 2 x 10m
- Safety-GND Cable 1 x 10m
- HV-GND Cable 1 x 10m
- Safety-Switch 1 x 2m
- Power Cord
- 2 Paper Rolls
- USB Memory Stick
- Instruction Manual

Options

- TP 01: External temperature probe
- Safety switch 10m



Raytech AG

Oberebenstrasse 11

CH-5620 Bremgarten

www.raytech.ch

Phone +41 56 648 60 10

Fax +41 56 648 60 11

welcome@raytech.ch