

CAPO 12

Capacitance and Dissipation Factor measurement



The CAPO-12 is a powerful, precise and portable 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 can perform measurements of insulation Power Factor ($\cos\phi$), Dissipation Factor ($\tan\delta$), Capacitance, Inductance, Excitation current, Quality Factor and Power Loss (watts). The measurements can be made up to 12kVAC at a variable frequency from 10Hz to 400Hz. In addition to precision, the CAPO-12 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 12 000 V @ 10-400 Hz

Measured values

Dissipation Factor $\tan\delta$
Power Factor $\cos\phi$
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 $\cos\phi$	$\pm 0.5\% \text{ Rdg} \pm 1 \times 10^{-4}$	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
	$\pm 0.3\% \text{ Rdg} \pm 0.3 \text{ pF}$	0.01 pF or 5 Digits
	$\pm 0.3\% \text{ Rdg} \pm 0.3 \text{ pF}$	0.01 pF or 5 Digits
@ 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
	$\pm 0.3\% \text{ Rdg} \pm 0.3 \text{ pF}$	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 12

Size

L: 627 mm (24.7")

W: 475 mm (18.7")

H: 292 mm (11.5")

Weight

37.2 kg (82 lbs.)

Interface

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

Panel Display

Color LCD with backlighting and touch screen

**Features**

- Test Voltage up to 12kV
- Built-in Standard Capacitor
- Test Frequency 10Hz to 400Hz
- Internal thermal printer
- Microprocessor based system with internal storage for over 10 000 test results

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

- Safety-Switch 10m
- External temperature probe



CAPO 12

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

