

CAPO 2.5: Battery-Operated, 2.5 kV Capacitance Power Factor Test Set

The CAPO 2.5 is designed for fast and easy measurements, made with the well-known high precision and quality of Raytech.

This easy-to-use, battery-operated test set measures dissipation factor ($\tan \delta$), power factor ($\cos \varphi$), capacitance, inductance, quality factor, and power (watts) which can be converted to 10kV. Built to stand up to the harsh conditions of field testing, this instrument provides reliable test results in any situation.

Features

- Battery-operated, making it convenient to use
- Very light and portable – complete system less than 22 kg
- Built-in standard capacitor
- Power factor $\cos \varphi$ / dissipation factor $\tan \delta$ reading
- Accurate and reliable
- Test frequency 10 Hz to 400 Hz
- Easy export of results with USB key
- Internal storage for over 10,000 test results
- External safety switch and safety ground detect for safe operation
- Temperature channel with automatic resistance correction
- Simple to operate using the color LCD touch screen with LED backlight
- Internal printer for printing results in the field
- 5-Year standard warranty



CAPO 2.5

Accuracy

	Range	Accuracy	Resolution
Dissipation Factor $\tan \delta$	0 ... 0.1	$\pm 0.5\% \text{ Rdg} \pm 1 \times 10^{-4}$	1×10^{-5}
	0.1 ... 1	$\pm 0.5\% \text{ Rdg} \pm 1 \times 10^{-4}$	1×10^{-4}
	>1	$\pm 0.5\% \text{ Rdg}$	3 Digits
Power Factor $\cos \varphi$	0 ... 0.1	$\pm 0.5\% \text{ Rdg} \pm 1 \times 10^{-4}$	1×10^{-5}
	0.1 ... 1	$\pm 0.5\% \text{ Rdg} \pm 1 \times 10^{-4}$	1×10^{-4}
Capacitance	60 Hz: 0.00pF to 1.1 μF^1	$\pm 0.3\% \text{ Rdg} \pm 0.3\text{pF}$	0.01pF or 5 Digits
	50 Hz: 0.00pF to 1.3 μF^1		
Test Voltage	Up to 2500V _{rms} (45 ... 400 Hz)	$\pm 0.5\% \text{ Rdg} \pm 1\text{V}$	1V (<100V)
			10V (>1000V)
Test Current	Up to 200mA _{rms}	$\pm 0.3\% \text{ Rdg} \pm 1\mu\text{A}$	0.1 μA or 4 Digits
Output Power	0 ... 500VA		
Output Frequency	10 Hz – 400 Hz (Step 0.5 Hz)	$\pm 0.01\%$	0.1 Hz

¹ Test Voltage Dependent

Specs

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

Weight: 22.2 kg (49 lbs.)

Input Power: 85 to 264 VAC, 250W, or Battery Operated

Test Voltage: Up to 2,500V

Output Frequency: 10 Hz to 400 Hz

Temperature: **Operating:** –10°C to 60°C (14°F to 140°F), **Storage:** –20°C to 70°C (–4°F to 158°F)

See Instruction Manual for more parameters. Specifications subject to improvement at any time.

Test Current: Up to 200 mA_{rms}

Panel Display: 5.7" Color LCD with LED backlight and touch screen

Interface: 2 USB 2.0 interfaces (host and device) and 9 Pin RS-232 serial

Memory Storage: More than 10,000 measurements

Front Panel: Sealed, anodized

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Standard Accessories Included

HV Cable – 10m (32 ft.)
HV Ground Cable – 10m (32 ft.)
Test Lead A – Red, 10m (32 ft.)
Test Lead B – Blue, 10m (32 ft.)
Safety Ground Lead – 10m (32 ft.)

Safety Switch – 2m (6.5 ft.)
Power Cord – 6.09m (20 ft.)
RS-232 Cable – 3m (10 ft.)
A-B USB Cable – 3m (10 ft.)
Cable Bag with Shoulder Strap

External USB drive and touch screen stylus
Paper Refill for Printer, Qty. 5
Instruction Manual
Certificate of Accuracy

Optional Items Available

2021N-26001: Temperature Probe – 10m (32 ft.)
3071N-31000: Safety Switch – 10m (32 ft.)
5090N-15001: Annual Warranty Extension

Raytech is a world leader in the design and production of precision electronic measuring instruments and systems. The unique design approach of the engineering team at Raytech has resulted in the development of highly regarded measuring instruments, which have set new standards in the electrical testing industry.

Our exceptional reputation for support and service is unmatched.

Raytech products are designed for many years of trouble-free use, which is why we can offer a **standard 5-year warranty** – guaranteeing the highest quality instrumentation available.



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