

Capacitance and Dissipation Factor Measuring Bridge TG-3MOD



- fully automatic capacitance and power factor measuring bridge
- For high voltage insulation diagnostics
- $1... 2 \times 10^{-5}$ uncertainty and 10^{-6} resolution for dissipation factor measurement
- measures impedances in all four quadrants
- built-in RS232 interface
- Option: Higher Cx - current range

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Specifications

Modular Capacitance and Power Factor Measuring Bridge TG-3MOD

maximal current through test object	5 A (with optional range extension up to 20 A)
maximal current through standard capacitor	30 mA
capacitance measuring range	$0.1 \times C_N \dots 1'000 \times C_N$ (with optional range extension up to $10'000 \times C_N$)
dissipation factor range	$1 \times 10^{-5} \dots 1$
voltage measurement	10 V ... 1 MV
frequency measurement	45 Hz ... 65 Hz
uncertainty of capacitance measurement	$\pm 0.01\%$
uncertainty of phase measurement	$\pm 0.02 \text{ mrad} \pm 1\%$ of the displayed value
uncertainty of voltage measurement	$\pm 1\%$ of reading
uncertainty of frequency measurement	$\pm 1\%$ of the displayed value
reference conditions	
minimal current through standard capacitor	35 μ A
temperature	$23^\circ \text{C} \pm 2^\circ \text{C}$
humidity	45 ... 75%
altitude (pressure)	101.3 kPa
rated range of use	
according IEC 359	
temperature	$5^\circ \text{C} \dots 40^\circ \text{C}$
humidity, non condensing	20 ... 95%
altitude (pressure)	70 ... 106 kPa
display	
LCD- Graphics	
size	$500 \times 470 \times 192$ (w \times d \times h in mm)
mass	15 kg
power mains	230V / 50Hz / 25VA

Option: Data Processing & Recording Software TG-0MOD-CP01

this software is compatible with windows

functions:

- data transfer by RS232 interface
- processing the measurements
- displaying the measurements
- printing
- saving
- transfer to Excel

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