

Industry Capacitance and $\tan\delta$ Measuring Bridge

Type TG-4



- Fully automatic
- Very easy to operate
- Capacitance measuring range up to $10'000 \times C_N$
- Measurement of grounded and ungrounded specimens
- $\tan\delta$ uncertainty 1×10^{-4}
- Test object current up to 10 A
- Automatic interference (option)
- Lightweight unit of only 9kg
- Remote control and data transfer via RS232 interface

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Technical Specifications**Universal Capacitance and tan δ Measuring Bridge****Type TG-4**

Maximal current through test object	10 A
Maximal current through standard capacitor	30 mA
Capacitance measuring range	$0.1 \times C_N \dots 10'000 \times C_N$
Dissipation factor range	$1 \times 10^{-4} \dots 1$
Voltage measurement	10 V ... 1 MV
Uncertainty of capacitance measurement	$\pm 0.1 \%$
Uncertainty of phase measurement	$\pm 0.1 \text{ mrad} \pm 1 \%$ of the displayed value
Uncertainty of voltage measurement	$\pm 1 \%$ of reading ± 2 digits
Display	Capacitance in pF, nF or μF inductance in mH, H or kH tan δ , Power or quality Factor direct or in % HV value and frequency
Noise suppression	up to 10 mA (Option)
Measurement frequency	45 ... 65 Hz
Interface	RS232

Reference conditions

Minimal current through standard capacitor	35 μA
Temperature	$23^\circ \text{C} \pm 2^\circ \text{C}$
Humidity	45 ... 75 %
Air pressure	101.3 kPa

Rated range of use

according to IEC 359	
Temperature	$5^\circ \text{C} \dots 40^\circ \text{C}$
Humidity, not condensing	20 ... 95 %
Air pressure	70 ... 106 kPa
Dimension	19" x 3U
Weight	9 kg, 20 lbs
Power mains	115/230V 50/60Hz 50VA

Option**Software for displaying and data processing****Type TG-0MOD-CP01****this software is compatible with Windows**

functions:

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