



Tangent Delta Bridge

Model TG-3

- Stand alone unit
- Built-in RS232 interface and Windows software package included
- Easily display and process precise measurement results
- Precision $\times 10^{-5}$ measurements
- Automatic balancing

TESTING APPLICATIONS

The TG-3 is a fully automatic capacitance and dissipation factor (power factor) measuring bridge for high precision high voltage insulation diagnostics.

The TG-3 is used in applications where it is necessary to determine the tangent delta of liquid or solid dielectrics.



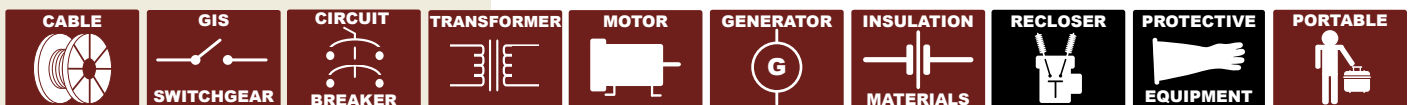
Standard Capacitor

(must be purchased separately, see brochure no. 90900)



SPECIFICATIONS

Maximum current through test object	5 A (optional current extension available up to 20 A)
Maximum current through standard capacitor	30 mA
Capacitance measuring range	$0.1 \times C_N \dots 1,000 \times C_N$
Dissipation factor measuring 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	± 0.02 mrad $\pm 1\%$ of the displayed value
Uncertainty of voltage measurement	$\pm 1\%$ of range ± 2 digits



Specifications are subject to change without notice.

Brochure No. 901001

DIMENSIONS & WEIGHT	Length	19 3/4" (500 mm)
	Width	18 1/2" (470 mm)
	Height	7 5/8" (192 mm)
	Weight	31 lbs (14 kgs)

REFERENCE CONDITIONS

Minimal current through standard capacitor	35 μ A
Temperature	23°C \pm 2°C
Humidity	45 ... 75%
Altitude (pressure)	101.3 kPa

RATED RANGE OF USE

According IEC 359	
Temperature	5°C ... 40°C
Humidity, non-condensing	20 ... 95%
Altitude (pressure)	70 ... 106 kPa

OPTIONS

- Current extension up to 20 A
- External high current CT up to 400 A

MODEL CT-2FRO Current Transformer (option)



Cables Included

SPECIFICATIONS

Nominal primary currents	660 A, 220 A and 20 A
Ratio	1:10 and 1:100 and 1:250
Frequency	45 Hz ... 65 Hz
Working range	1 ... 120 % of nominal current
Uncertainty of ratio	\pm 0.001 %
Uncertainty of phase	\pm 0.05 Min.

DIMENSIONS & WEIGHT	Length	9 1/2" (240 mm)
	Width	13 3/4" (350 mm)
	Height	15 3/4" (400 mm)
	Weight	35 lbs (16 kgs)

High Voltage • High Current • High Power Test Systems and Components

ISO 9001
CERTIFIED



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