Tangent Delta Bridge Model TG-3



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.

- > Stand alone unit
- Built-in RS232 interface and Windows software package included
- Easily display and process precise measurement results
- ➤ **Precision x 10**-5 measurements
- Automatic balancing



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 x C _N 1,000 x C _N
Dissipation factor measuring range	1 x 10 ⁻⁵ 1
Voltage measurement	10 V 1 MV
Frequency measurement	45 Hz 65 Hz
Uncertainty of capacitance measurement	± 0.01%
Uncertainty of phase measurement	± 0.02 mrad ± 1% of the displayed value
Uncertainty of voltage measurement	± 1% of range ± 2 digits















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

Reference Conditions

Minimal current through standard capacitor	35 μΑ
Temperature	23°C ± 2°C
Humidity	45 75%
Altitude (pressure)	101.3 kPa

Cables Included

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)



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	±0.001 %
Uncertainty of phase	±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)



WORLD HEADQUARTERS

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