

# Capacitance and Dissipation Factor Measuring Bridge TG-1MOD



- for high voltage insulation diagnostics
- allows precise measurements of capacitance and dissipation factor
- measures impedances in all four quadrants
- features classical balancing using analogue zero indicator **and**
- fully automatic balancing
- built-in RS232 interface
- Options: higher Cx - current range  
Automatic interference rejection  
PC software

**Presco AG**

Zürcherstrasse 70 CH 8104 Weiningen Switzerland

phone: +41 44 750 63 63 fax: +41 44 750 63 66 Email : [info@prescoag.com](mailto:info@prescoag.com) Internet : [www.prescoag.com](http://www.prescoag.com)

# Specifications

## Modular Capacitance and Power Factor Measuring Bridge TG-1MOD

maximal current through test object	5 A
maximal current through standard capacitor	30 mA
capacitance measuring range	$0.1 \times C_N \dots 1000 \times C_N$
dissipation factor range	$1 \times 10^{-5} \dots 1$
voltage measurement	10 V ... 1 MV
uncertainty of capacitance measurement	$\pm 0.01\%$
uncertainty of phase measurement	$\pm 0.02 \text{ mrad} \pm 2\%$ of the displayed value
uncertainty of voltage measurement	$\pm 2\%$ of range $\pm 2$ digits

### reference conditions

minimal current through standard capacitor	35 $\mu$ A
temperature	23° C $\pm$ 2° C
humidity, non condensing	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

### display

capacitance display	6 decimals LED
dissipation factor display	5 decimals LED
voltage display	4 decimals LED
$C_N$ - setting	0.10 pF - 9999.99 pF

size	500 × 470 × 192 (w × d × h in mm)
mass	15 kg
power mains	230V / 50Hz / 25VA

## Option: Automatic Balancing TG-0MOD-AB01

### automatic balancing by built-in computer

initial balancing	3 ... 5	seconds
subsequent balancing	0.6	seconds

Every 2 minutes the initial balancing is restarted to compensate for possible instabilities in the convergence procedure caused for example by changes in frequency.

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

### this software is compatible with windows

functions:

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

# **Presco AG**

Zürcherstrasse 70 CH 8104 Weiningen

phone: +41 44 750 63 63 fax: +41 44 750 63 66 e-mail: info@prescoag.com

specifications subject to change