

MIG (Modular Impulse Generator) for Tests on Varistors



Clamping Voltage Tester

Waveforms: 8/20 μ s current
 Impedance: 10, 100, 1000 Ohm
 Range: 0,5 A up to 250 A
 Application: varistors $V_{clp} \leq 3000V$
 Standard: manufacturer specification

MIG0603CLV1



Surge Withstand Tester

Waveforms: 8/20 μ s current
 Impedance: 1, 0.5, 0.25 Ohm
 Range: 100 A up to 24'000A
 Application: varistors $V_{clp} \leq 3000V$
 Standard: IEC 61643-1

MIG0624



Surge-Energy Tester

Waveforms: 8/20 or 10/1000 μ s
 Range: up to 48 kA or 750A
 Voltage: maximum 12 kV
 Standard: IEC 61643-1

MIG1248LP1

MIG for Tests on SMD



SMD Varistor Tester



Waveforms: 8/20 μ s, 10/1000 μ s, CWG
 8/20 ranges: up to 3.6 A, 36 A, 360 A
 10/1000 μ s: up to 6 A, 60 A, 360 A
 CWG: 6 kV, 3 kA
 Standard: manufacturer specification

MIG0603CLP

MIG for Tests on MOV



Energy Tester with Rectangular Waveform

Waveforms: rectangular 2 ms
 Energy Range: 47 J up to 700 J
 Current Range: 5 A up to 150 A
 Standard: IEC 60060-1

MIG0612EA, MIG0636EA

MIG for Tests on SPD



Surge-Protective Device Tester

Waveforms Class III: $v=1.2/50 \mu$ s, $i=8/20 \mu$ s
 Range: up to 24 kV, up to 12 kA
 Impedance: 2 Ohm
 Waveforms Class I and Class II:
 1.2/50 μ s: up to 24 kV
 8/20 μ s: up to 12 kA

MIG1206SPD, MIG2412SPD

MIG for Tests on Capacitors



1,2/50 μ s Automatic Capacitor Test Place

Waveforms: 1,2/50 μ s 6 kV
 Cs : 250 nF, 20 μ F
 Range 20 μ s: 0 up to 10 μ F
 Range 250n: 0 up to 27 nF
 Application: X and Y class, (Y)
 Standard: IEC 60384-14

MIG1212CAP, DUT-MUX, TEMA Software



Active Flammability Tests on Capacitors

Tester:
 3 μ F tank capacitor
 Application:
 X and Y capacitors
 V-range:
 4 μ F-6kV, 10 μ F-4kV
 AC voltage:
 100 up to 900 V rms

MIG1803CAP

MIG for Tests on Circuit Breakers



Circuit Breaker Tester with a.c. Supply

Waveforms: 1,2/50 μ s, 8/20 μ s Ring
 1.2/50 μ s: v up to 12 kV
 8/20 μ s: i up to 320 A, up to 3000 A
 Ring wave: i 10 A up to 290 A
 Standards: IEC 60497-2, 61009-1

MIG0603CB



CB and SPD Test Place

Technical Data: see MIG0603CB
 Coupling filter: 16 A, 280 V
 MIG1206SPD: 12 kV, 6 kA

MIG0603CB, MIG1206 and Coupling Filter

MIG for Tests on Arresters



Dual Surge Tester K12

Waveforms: i = 8/20, 10/700, 10/350 μ s
 Range: 2 x i = 5'000, 120, 240 A
 1 x i = 10'000, 240, 480 A
 Application: two electrode protection components
 Standard: ITU K12

MIG0612K12

MIG for Tests on Insulation



Insulation
up to 24 kV

Waveform 1: 1.2/50 μ s standard
Application: voltage withstand tests
Standards: IEC 60060-1, -2

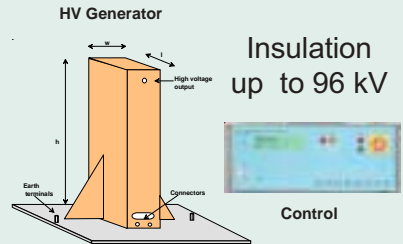
MIG1203, MIG1803, MIG2403



Insulation
up to 48 kV

Waveform 1: 1.2/50 μ s standard
Application: voltage withstand tests
Standards: IEC 60060-1, -2

MIG3603, MIG4803



Insulation
up to 96 kV

Waveform 1: 1.2/50 μ s standard
Application: voltage withstand tests
Standards: IEC 60060-1, -2

MIG9603

Accessories to Insulation Tester MIG1203



Waveform 1: 1.2/50 μ s, 0.5J, 500 Ohm
Range: 0.8, 1, 2.5, 4, 6, 8, 10, kV
Application: Test on Watt Hour Meters
Standards: IEC 61036

NW-IEC61036C1 and C2



Switch
Matrix

Waveform: <1000 μ s up to 6000 V
Waveform: a.c. 50/60 Hz 400 V
Application: voltage withstand tests
Standards: manufacturer specification

MIG-COMAT36



Special
Networks

Waveform 1: 1.2/50 μ s 0.5J, 500 Ohm
Application: Protection Relay Tests
Standard: IEC 60255-5
Application: Antenna inputs
Standard: IEC 60065
Further networks on demand

Networks NW-XX

MIG for Tests on Protection Relay



Damped
Oscillatory
Wave 1MHz,
100kHz

Waveform: 1 MHz, 100 kHz, $t_a = 75$ ns
Impedance: 200 Ohm (150 Ohm)
Range: 250 V up to 3000 V
Standards: IEC 60255-5,
IEC 61000-4-12,
(ANSI/IEEE C37.90)

MIG-OS-0S1



Coupling
Filter for a.c.
and I/O lines
1MHz, 100kHz

Coupling: three phases, N, PE
Voltage: a.c. 440V, 6 kV CWG
Current: a.c. 25 A/L, 3 kA CWG
Standards: IEC 61000-4-5, -12,
IEC 60255-22
I/C lines: 4 input/ outputs

CDN2000-06-25

MIG for testing Watt-Meters



Insulation
1.2/50 μ s
SURGE
1.2/50, 8/20

Waveform 1: 1.2/50 μ s up to 12 kV
Standard: IEC 61036
Waveform 2: CWG 6kV, 3 kA
Standard: IEC 61000-4-5
Waveform 3: 8/20 μ s MF up to 2 kA/m
Standard: IEC 61000-4-9

MIG1203CWG

Accessories to MIG (Modular Impulse Generators)

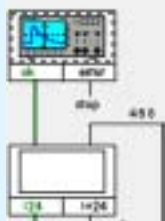


Test Cabinet

Dimensions: 500 x 450 x 270 mm
DUT volume: 200 x 200 x 200 mm
Safety: VDE0104, warning lamps
green, red
Application: for all MIG with high
voltage terminal on top

TC-MIG24

EMC-PARTNER AG, 4242 Laufen, Switzerland --- The widest range of impulse generators
Operator: R Casanova LOT Nbr: 0122567
Remarks: Mig. Date: 03.03.2001
Test output on Port 1, 2



TEMA Software

TEMA
Test Manager

Sofisticated software
with options for
specific automatic
component test places

The Headquarters:



EMC PARTNER AG
Baselstrasse 160
CH - 4242 Laufen
Switzerland

Phone: ++ 41 61 763 01 11
Fax: ++ 41 61 763 01 15
Email: sales@emc-partner.ch

Web-Site:
www.emc-partner.com

North America:



HV Technologies, Inc.
P.O. Box 1630
Manassas, VA 20110
USA

Phone: ++1 703 365 2330
Fax: ++1 703 365 2331
Email:
emcsales@hvtechnologies.com

Web-Site:
www.hvtechnologies.com

Asia Pacific:



Precision International Corp.
7F, No. 82-8, Kuang Fu Road, Section 1
Sanchung City 241, Taipei
Taiwan

Phone: ++886 2 8512 4888
Fax: ++886 2 8512 4900
Email: pic@pic.com.tw

Web-Site:
www.pic.com.tw