

MIG16-2

Megger Impulse Generator and HV Test System



- **Rugged, portable field impulse generator**
- **Two range 8/16 kV output**
- **Powerful 1500 joules output**
- **HV insulation testing to 20 kV**
- **Proof/burn up to 20 kV, 115 mA**

DESCRIPTION

The Megger impulse generator (thumper) MIG16-2 is designed to provide quick, effective, accurate and safe fault location, reducing system outages and customer minutes lost.

The instrument comes in a rugged, yet portable, enclosure. Its IP64 rating makes it suitable for use in even environmentally hostile conditions.

The MIG16-2 offers the facility to undertake cable testing: cable and fault diagnosis and pinpoint fault location using acoustic methods.

FEATURES AND BENEFITS

High voltage module

- Easy-to-use manual controls
- Safety interlocks to prevent injury to operators
- Safety interlocks to prevent any switching during high voltage generation.
- 2-ranges ensure 100% of energy available at 8 & 16 kV
- Powerful 1500 joules output assists rapid, accurate pinpoint fault location even in difficult locations
- High visibility HV status bar
- External interlock
- Detachable HV cable
- Ergonomically designed transport handles and foot-step allow for easy and comfortable transporation.

APPLICATIONS

HV testing (proof/insulation testing)

Used to prove the integrity of (and identify and confirm) fault conditions in cable networks.

The variable output voltage can also be used for sheath testing at 5 or 10 kV.

Proof/burn

Following a breakdown of the cable under test, a high current is applied that stabilizes the fault condition. This can assist pre-location and pinpointing of unstable faults.

Pinpoint fault location

Accurate pinpoint fault location is achieved using the acoustic method, whereby the powerful 8/16 kV 1500-joule surge generator (thumper) and an acoustic receiver (Megger MPP2000) is used.

SPECIFICATIONS

Testing

Output: 0 - 20 kV (negative with regard to earth)
0 - 10 kV, 115 mA constant
0 - 20 kV, 58 mA constant
Resolution: 5 mA
Metering: Analog metering of current and voltage

Fault Conditioning

Proof/burn: 0 - 20 kV 58 mA
0 - 10 kV 115 mA

Pinpoint Fault Location

Surge: 0 - 8 and 0 -16 kV, @ 1500 joule
 Impulse sequence: Adjustable 5 – 30 seconds
 Single shot

Cables

HV: Detachable 15 m (50 ft) 1-phase flexible shielded cable with HV crock-clips
 Input/supply: Input cable
 Ground: 15 m (50 ft) 8 mm² flexible ground cable with vice grips

Safety

High visibility status bar
 Emergency stop
 Safety interlock circuit

Supply

Universal AVSM 2-ranges: 108 - 132 V AC and 208 - 265 V AC
 47 – 63 Hz

Environmental

Operating temperature: -20 ° to +50 °C (-4 ° to 122 °F)
 Storage temperature: -20 ° to +55 °C (-4 ° to 131 °F)
 Elevation: 1600 m (De-rate voltages at higher altitudes)
 Humidity: 5 to 95% RH non-condensing

IP Rating

IP64 (with top/back flaps closed)

Weight

119 kgs (263 lbs)

Dimensions

89 x 53.6 x 50 cm / 35 x 21x 20 in.

ORDERING INFORMATION

Item	Cat. No.	Item	Cat. No.
Megger 8/16 kV 1500 J impulse generator and HV test system	MIG16-2	Optional Accessories	
Included Accessories		HV vice grips	18944-2
High-Voltage shielded output cable 15 m (50 ft) including MC terminations with HV Clamps	1001-123	PFL22M transit case	2001-289
Supply/input cables (1x ea USA, UK, SHUKO, international)	17032-4/5/12/13	Accoustic/electromagnetic receiver	MPP2000
Flexible ground cable, 15 m (50 ft)	19265-15	NOTE: Refer to factory for full list of cable reel assemblies.	
Interlock quick release pin	90003-606		
Cable bag	2001-813		
Instruction manual	AVTMMIG16-2		

UK

Archcliffe Road, Dover
 CT17 9EN England
 T +44 (0) 1 304 502101
 F +44 (0) 1 304 207342
 UKsales@megger.com

UNITED STATES

4271 Bronze Way
 Dallas, TX 75237-1019 USA
 T 1 800 723 2861 (USA only)
 T +1 214 333 3201
 F +1 214 331 7399
 USsales@megger.com

OTHER TECHNICAL SALES OFFICES

Valley Forge USA, College Station USA,
 Sydney AUSTRALIA, Täby SWEDEN,
 Ontario CANADA, Trappes FRANCE,
 Oberursel GERMANY, Aargau
 SWITZERLAND, Dubai UAE, Mumbai
 INDIA, Johannesburg SOUTH AFRICA,
 and Chonburi THAILAND

ISO STATEMENT

Registered to ISO 9001:2008 Cert. no. 11006.01

MIG16_DS_EN_V01

www.megger.com
 Megger is a registered trademark