

MIG16-2

Megger Impulse Generator and HV Test System



- **Rugged Field Instrument**
- **Portable Field Impulse Generator**
- **Two Range 8/16kV 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 whilst High Voltage is being generated.
- 2-ranges ensure 100% of energy available at 8 & 16kV
- Powerful 1500 Joules output aid 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 allows for easy and comfortable transportation.

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
 Earth: 15 m (50 ft) 8 mm2 flexible earth 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

119kgs (263lbs)

Dimensions

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

ORDERING INFORMATION			
Item	Cat. No.	Item	Cat. No.
Megger 8/16kV 1500J 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 (1xea USA, UK, SHUKO, International)	17032-4/5/12/13	Acoustic/Electromagnetic Receiver	MPP2000
Flexible ground cable, 15 m (50 ft)	19265-15	NB: Refer to factory for full list of cable reel assemblies	
Interlock Quick Release Pin	90003-606		
Cable bag	2001-813		
Instruction manual	AVTMMIG16-2		