

# MLCA

## Megger Low Current Adapter



- Interfaces with Megger relay test sets to provide high accuracy at very low test currents.

### DESCRIPTION

The Megger Low Current Adapter (LCA) is a small, light-weight, field portable, unit specifically designed to provide multiple precise very low current sources with the Megger relay test systems.

### APPLICATIONS

The combination of the Megger relay test system and the MLCA provides a very powerful test capability. A single MLCA unit can provide a maximum of three currents 10 to 200 milliamps each phase. The MLCA is especially designed for testing very sensitive extremely low current relays with high accuracy amplitude and phase angle. With a three channel Megger relay test system unit and the MLCA unit the user can test relays which require three phase voltage and three phase currents, where the currents range as low as 7.5 milliamps up to 0.20 Amperes. A typical test application would be an anti-motoring power directional relay associated with generator protection.

### SPECIFICATIONS

#### MLCA Input/Output Terminals

Three (3) high current fuse protected input terminals, and three (3) low current output terminals are provided.

#### Amplitude Accuracy

At 23° C  $\pm 5^\circ$  C, 50/60 Hz, typical accuracy is less than 0.1% from 10 to 200 mA. Maximum error is  $\pm 1\%$  from 10 mA to 200 mA, 0° to 50° C. For test currents less than 10 mA,  $\pm 1.5\%$  down to 7.5 mA.

#### Phase Angle Accuracy

$\pm 0.1^\circ$  typical,  $\pm 0.25^\circ$  maximum at 50 or 60 Hz, full-scale output current.

**Ratio:** 100/1

**Rated Burden:** 12 VA

**Temperature Range**  
**Operating:** 32 to 122° F  
(0 to 50° C)

**Storage:** -13 to 158° F  
(-25 to 70° C)

#### Relative Humidity

90% RH, Non-condensing

#### Dimensions

10.0 W x 3.25 H x 6.0 D in. (250 W x 81.25 H x 150 D mm)

#### Weight

4.70 lbs. (2.12 kg)

#### Enclosure

The unit comes mounted in a rugged enclosure for field portability. A padded soft-sided carry case is provided.

**ORDERING INFORMATION**

<b>Item (Qty)</b>	<b>Cat. No.</b>
Megger Low Current Adapter	MLCA
<b>Includes</b>	
Instruction Leaflet (1 ea)	85704
Carry Case (1 ea.)	684034
<b>Optional Accessories</b>	
Test lead, red, 200 cm, use with voltage/current (up to 15Amps) outputs and timer (3 ea.) CAT II	620143
Test lead, black, 200 cm, use with voltage/current (up to 15Amps) outputs and timer (3 ea.) CAT II	620144

**UK**  
Archcliffe Road Dover  
CT17 9EN England  
T +44 (0) 1304 502101  
F +44 (0) 1304 207342  
UKsales@megger.com

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

**OTHER TECHNICAL SALES OFFICES**  
Täby SWEDEN, Norristown USA,  
Sydney AUSTRALIA,  
Toronto CANADA, Trappes FRANCE,  
Kingdom of BAHRAIN, Mumbai INDIA  
Johannesburg SOUTH AFRICA  
Chonburi THAILAND

**ISO STATEMENT**  
Registered to ISO 9001:2000 Cert. no. 10006.02  
**MLCA\_DS\_EN\_V02**  
[www.megger.com](http://www.megger.com)  
Megger is a registered trademark