

EZ-Thump

Compact and portable fault location system for immediate on-site fault location



- Easy, fully automatic operation
- Prelocation and pinpointing in one small unit
- Available as 4 or 12 kV version
- Sunlight-readable colour display
- Integrated battery

康高特-MEGGER EZ-THUMP电缆故障定位系统 DESCRIPTION

The EZ-Thump is a light, compact battery/AC-operated fault location system for LV and MV cables. It is the perfect complement for a satellite-based fault location system in outlying areas with both lower population density and fault rate, where speed, easy operation, weight, and economics are the driving factors. This unit requires absolutely no adjustments and is operated via rotary control knob.

Connect it, switch it on and prelocate the fault without having to make any settings. This fully automatic unit allows even inexperienced users to locate faults without specific training.

The 5.7" LCD transfective color screen automatically displays the results as a graphical trace, as well as numerical values for the cable end, fault position and joints.

The display also shows a comparison of the ARM reference and fault trace. The EZ-Thump's integrated 500 J surge generator provides acoustic pinpointing as well as DC for breakdown detection, insulation measurement and cable testing.

The pulsed output voltage makes sheath fault location possible through the step voltage method. All functions are contained in a small unit with an integrated battery for immediate use without connection to the mains.

As an inexpensive satellite system, the EZ-Thump is the ideal solution for fast, ad hoc fault location, without the need for a large fault location system on-site.

康高特-MEGGER EZ-THUMP电缆故障定位系统 Applications

- Fault location in low voltage networks
- Fault location in medium voltage networks
- Fault location for street lighting
- Sheath fault pinpointing
- DC low voltage testing (4 kV version)
- DC medium voltage testing (12 kV version)

All features at a glance

- Very easy to operate
- No user settings required
- Easy- and Expert-Mode
- Direct display of all important data
- Small and portable
- Sturdy and weatherproof for outdoor use
- USB upload/download interface
- Can be carried in any car
- Battery operation

SPECIFICATIONS*

Testing

Output	0 – 4 kV, 35 mA DC (EZ-THUMP4) 0 – 12 kV, 12 mA DC (EZ-THUMP12)
---------------	--

Prelocation

TDR	Range: 25,000 ft (7.6 km) Sampling Rate: 100 Mhz Resolution: 2.5 ft @ 250 ft/fs 0.8 m @ 80 m/fs
Arc Reflection	0 – 4 kV or 0 – 12 kV (model dependent)

Pinpoint fault location

Surge	0 - 4 kV @ 500 J (EZT4) 0 – 12 kV @ 500 J (EZT12)
Impulse sequence	10 seconds

Display	5.7 in. (14.48 cm) Transflective TFT Color LCD 640 x 480 pixel
----------------	--

Memory	1000 traces
Interface	USB port

Cables/Terminations	15 ft (4.6 m) HV flexible shielded cable with MC connector and hotline clamp HV return with hotline clamp 15 ft (4.6 m) ground/earth cable with hotline clamp 6 ft (1.8 m) mains supply lead set (US/SCHUKO/UK)
----------------------------	--

Supply	
Battery	Internal 24 V NiMH Battery 5 AH Approx. 30 mins of surge/thumping Approx. 3 hours recharge time 100 – 240 VAC – 24 VDC charger with connection lead set (US/SCHUKO/UK)
AC line	100 – 230 VAC ± 50/60 Hz

Safety	Emergency stop Key-switch Interlock Auto “time out”
---------------	---

Environmental

Operating Temperature	-20 ° to +50 °C
Storage Temperature	-25 ° to +70 °C

IP rating	IP54 (with open top)
Weight	32 kgs
Dimensions	36 x 39 x 50 cm

ORDERING INFORMATION

Order an EZ-Thump configured to your specific needs. To determine the catalog number, fill in the alpha characters with the corresponding numbers from the detailed options. Example: to order a 4-kV EZ-Thump with 15 ft output and ground cables, 14 mm male MC with vise grip cable termination, hand cart and sheath, request catalog number EZT4 - 15 T2 C H

Product	Order no.
4-kV Portable Fault Location System	EZT4-yyzzSCHM
12-kV Portable Fault Location System	EZT12-yyzzSCHM

Options (must be defined when ordering):

Cable length designator (yy):	
15 ft (4.6 m) HV output and ground cables	yy = 15
50 ft (15 m) HV output and ground cables	yy = 50
Cable termination designator (zz):	
14 mm male MC with hotline clamp	zz = T1
14 mm male MC with vise grip	zz = T2
Hardwired to battery clamps on HV and “G” clamp to ground (no MC connectors)	zz = T3
10 mm Female MC with battery clamps	zz = T4
Optional designators (omit when not ordered)	
Sectionalizing software	S
*Hand cart prep	C
**Sheath	H
Voltage selection manual	M

Included Accessories:

6 ft (1.8 m) mains supply lead set (US/SCHUKO/UK)	1002-889
Universal battery charger kit (US/SCHUKO/UK)	1002-890
Instruction manual	AVTMEZT4/12

Optional Accessories:

Hand cart for EZT4/12	895000180110000
15-kV elbow 14 mm female MC connector	865000100100000
25-kV elbow 14 mm female MC connector	865000200100000
35-kV elbow 14 mm female MC connector	865000300100000
digiPHONE+ surge wave receiver	871500500100000
ESG NT digital earth fault locator	871500200200000

*Not available with 50 ft cables
**Sheath fault testing/secondary fault locating

* We reserve the right to make technical changes.

Megger[®]