

Resonating Inductor and Adapter Kits



- Expands the range of Capacitance and Dissipation Factor (PF) for DELTA4000 units
- Capable of tuning capacitances up to $1\mu\text{F}$ at 10 kV
- Hand-crank tuning wheel
- Core gap gauge that displays position of inductor core
- Large wheels and handles for easy transport
- Adapter kits available to use with older Resonating Inductor models

DESCRIPTION

The resonating inductor is an accessory used to expand the capacitance range of the DELTA4000 automated insulation power factor test sets.

The resonating inductor is connected in parallel with the internal power supply of the test set. A manual tuning wheel on the resonating inductor varies the inductance to tune the parallel circuit for minimum load current.

The resonating inductor is self-contained and air-insulated. The housing is a sturdy metal enclosure welded throughout to withstand the rigors of field operation. Large wheels and handles are provided for convenience in transportation.

ADAPTER KITS

Solutions for Existing Resonating Inductors

Megger provides adapter kits that offer solutions for users who already own a resonating inductor and need to connect a DELTA4000 power factor test set.

APPLICATIONS

Capacitance and dissipation factor “power factor” testing is used to determine the quality of electrical insulation.

The insulating quality of electrical insulation may deteriorate due to manufacturer’s defects, contamination, physical damage, in-service fault conditions or normal aging.

When the insulating quality of electrical insulation deteriorates, leakage paths develop that allow current to pass through the insulation.

Dissipation factor measurements are used to detect these problems before complete insulation breakdown occurs.

The Resonating Inductor allows the user to perform capacitance and dissipation factor tests on such high-capacitance items as large motors, large generators and long cable runs.

Dissipation factor testing also can be performed on transformers, bushings, circuit breakers, insulators, capacitors, surge arresters, insulating liquids or any other type of equipment that contains electrical insulation.

SPECIFICATIONS

15 min on, 2 hrs off

Maximum Capacitive Load

1 µF at 60 Hz

1.2 µF at 50 Hz

Minimum Capacitive Load

0.05 µF

Tuning

Manual tuning by hand crank

Test Configuration

Designed for use in ungrounded specimen test (UST), grounded specimen test (GST) and grounded specimen test using guard connection (GST-G) test modes

Environmental

Operating Temperature Range

-4 to +140° F (-20 to +60° C)

Storage Temperature Range

-58 to +158° F (-50 to +70° C)

Relative Humidity

0 to 90%, noncondensing (operating)

0 to 95%, noncondensing (storage)

Dimensions

Resonating Inductor

(including wheels and handles)

38.7 H x 21.4 W x 25.3 D in.

(983 H x 543 W x 641 D mm)

Adapter Kit

8 H x 16 W x 13 D in.

(203 H x 406 W x 330 D mm)

Weight

Resonating Inductor

280 lb (127 kg)

Adapter Kit

18 lb (8.16 kg)

ORDERING INFORMATION

Item (Qty)	Cat. No.
Resonating Inductor for use with DELTA4000	670600-1
Included Accessories	
High-voltage interface cable, 8 ft (2.4 m)	30012-13
Ground interconnect lead, 8 ft (2.4 m)	30991-1
Inductor return cable, 8 ft (2.4 m), with connector	1001-802
Ground Lead 15 ft (4.5m)	4702-5
Cable bag	18313
Instruction manual	AVTM670600a
Adapter Kits	
Adapter kit for use with DELTA4000 and resonating inductor C/N 670600 Includes:	1002-231
High-voltage interface cable, 8 ft (2.4 m), with DELTA4000 high-voltage inboard termination [C/N 30012-12]	
Inductor return cable, 8 ft (2.4 m), with connector for DELTA4000 [C/N1001-802]	
Adapter box with 8-ft (2.4 m) lead that has the DELTA2000 high-voltage termination to plug into resonating inductor C/N 670600 and DELTA4000 high-voltage female connector	
Required accessories already included with C/N 670600:	
Ground interconnect lead, 8 ft (2.4 m)	30991-1
Ground lead, 15 ft (4.6 m)	4702-5
Adapter kit for use with DELTA4000 and resonating inductor Includes:	1002-455
High-voltage interface cable, 8 ft (2.4 m), with DELTA4000 high-voltage inboard and other manufacturers' outboard termination [C/N 30012-14]	
Inductor return cable, 8 ft (2.4 m), with connector for DELTA4000 inboard and banana male outboard [C/N 1001-802]	
Adapter kit with 8-ft (2.4 m) lead and other manufacturers' high-voltage termination to plug into Resonating Inductor and the DELTA4000 high-voltage female connector	

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