

5288A

33kVA, 10kV Mobile Resonating Inductor for use with MIDAS System

The capacitive load range of the MIDAS system can be increased by using this **Compensating Reactor (resonating inductor)**.

The 5288A provide a manual tuneable 10kV, 33kVA inductor coil. It comes into use mainly for power generator or other high capacitive loads on-site testing.

Function

The variable inductor is connected in parallel with the capacitive test object C_x . This configuration constitutes a parallel resonant circuit.

By adjusting the inductor L_k the resonant point can be balanced.

In this resonant configuration the inductor compensates the reactive power required by the capacitor and only a smaller proportion of real power (ohmic losses) is taken from the main supply.

This arrangement enables measurement of capacitances up to $1\mu\text{F}$ at 10kV.



Technical Specifications

| | |
|-------------------------|--|
| Max. Operating Voltage | 10kV rms (50Hz / 60Hz) |
| Frequency | 50 / 60Hz |
| Maximum Output Current | 3.3A @50Hz 2.75A @60Hz |
| Maximum Output Power | 33kVA |
| Inductance range | 9.7H .. 250H |
| Load tuning range | 40nF .. 1uF @50Hz 28nF .. 725nF @60Hz |
| PD Level @ Max. Output | <500pC |
| Duty cycle at full load | 50% at rated output power over a 16h period. Max. ON time: 15minutes. |
| Dimensions WxDxH | 58 x 48 x 84cm (23 x 19 x 33") |
| Weight | 135kg (297 lbs) |
| Operating Temperature | +5 .. 50°C |
| Storage Temperature | -20 .. 70°C |
| Relative Humidity | 5 .. 95 % r.h. |
| Dimensions | 58 x 48 x 84 cm |

Scope of Supply

5288A resonating inductor including cable set (3m) for complete installation together with MIDAS system.

European Contact
Haefely Test AG
 Lehenmattstrasse 353
 CH-4052 Basel
 Switzerland
 ☎ + 41 61 373 4111
 📠 + 41 61 373 4912
 ✉ sales@haefely.com

Locate your local sales representative at
www.high-voltage-hubbell.com



USA Contact
Hipotronics Inc.
 1650 Route 22
 PO Box 414
 Brewster, NY 10509 USA
 ☎ + 1 845 279 8091
 📠 + 1 845 279 2467
 ✉ sales@hipotronics.com