

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.

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