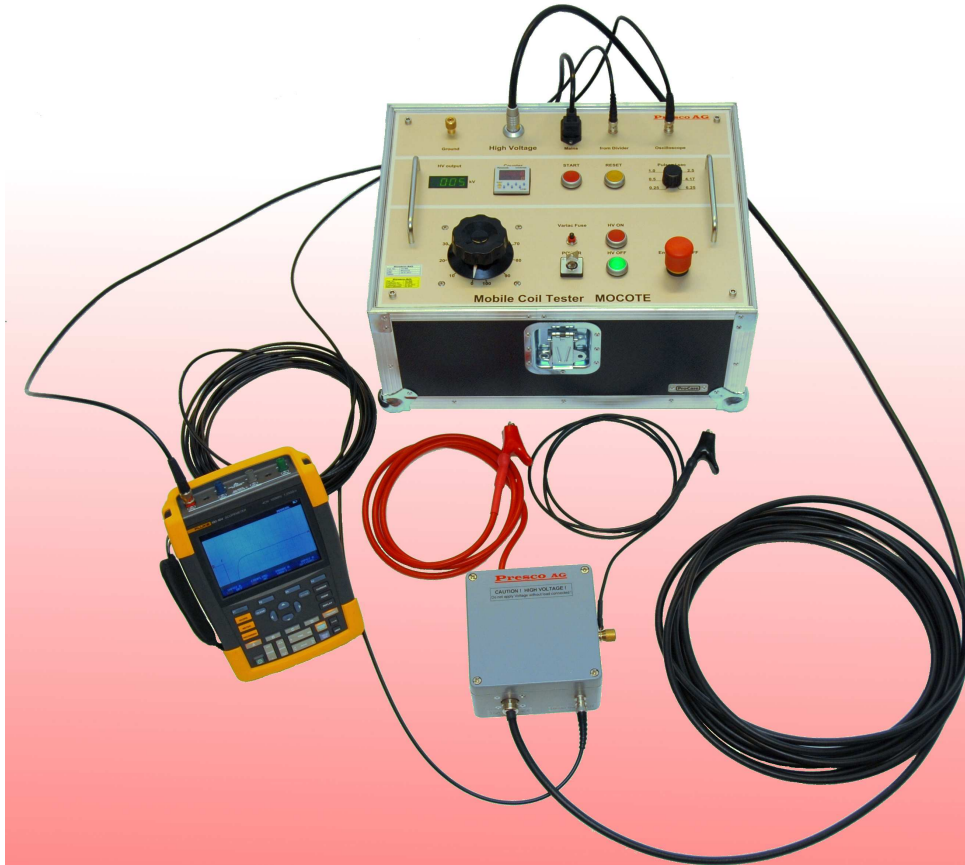


Mobile Coil Test System

Type MOCOTE



- Specifically designed for on site measurements on large electrical machines (e.g. rotor poles of large synchronous machines)
- Rugged desing for reliable operation in harsh environements
- Complies with IEC 60034-15 standard
- Generates true damped oscillations between discharge capacitor and test object due to bi-directional switching element
- Safe and easy to use. Safety measures: emergency-off button, automatic high-voltage output shorting relay
- Short-circuit proof high-voltage output: 0 ... 4.2 kV_{peak} impulse voltage
- Higher voltages (up to 6kV) and customer specified versions upon request

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Technical Specifications

Mobile Coil Test System

Type MOCOTE

Mobile system for form wound coil testing (e.g. rotor pole coils) by oscillating capacitor discharge according to IEC60034-15.

Impulse testing data

Impulse voltage, manually adjustable	approx. 200 V ... 4.2 kV
Capacitance of discharge capacitor	1.1 μ F
Maximum discharge energy	approx. 10 J
Impulse switching element	bi-directional high-voltage IGBT module
Pulse frequency, manually adjustable	12 ... 375 discharges per minute
Counter for number of discharges	1 ... 1'999 discharges
Impulse front time	< 400 ns (typ. 250 ns)
Scale factor of ext. voltage divider	1000 : 1
Bandwidth of ext. voltage divider	approx. DC ... 12 MHz
Displays	DC charging voltage (3½ digit LED display) Oscillation waveform (optional oscilloscope)
Outputs	High voltage output socket (LEMO type) BNC socket for oscilloscope
Recommended oscilloscope (optional)	Tektronix TDS 2004C or Fluke 190series
High-voltage protection features	High-voltage output shorting relay, intrinsically safe Short circuit protected high-voltage output (impulse output current is limited to <1.5 kA _{peak})
Controls	Main switch, lockable Emergency OFF, mushroom type Pulse frequency selector HV ON/OFF Counter for number of discharges Regulating transformer for charge voltage
adjustment	
Connections main unit to divider unit	Impulse power through RG-213/U coaxial cable Divided signal through RG-58 C/U coaxial cable with BNC connectors
Length of connection cables	10 m (or customer specified)
Dimensions main unit W × D × H	approx. 51 × 39 × 26 cm
Dimensions divider unit W × D × H	12.2 × 12.2 × 8 cm
Weight main unit	approx. 24 kg
Mains	230 V, 50/60Hz, approx. 300 VA

Reference conditions

Temperature	23° C ± 2° C
Humidity	45 ... 75 %
Air pressure	101.3 kPa

Rated range of use

according to IEC 359	
Temperature	5° C ... 40° C
Humidity, not condensing	20 ... 95 %
Air pressure	70 ... 106 kPa