



# Three-Phase Transformer Demagnetizer DEM60

- Fully automatic demagnetization
- Demagnetization currents 5 mA – 60 A DC
- Automatic discharging circuit
- Lightweight – 13,1 kg



## High DC Current Source for Automatic Transformers and CT Demagnetization

### Description

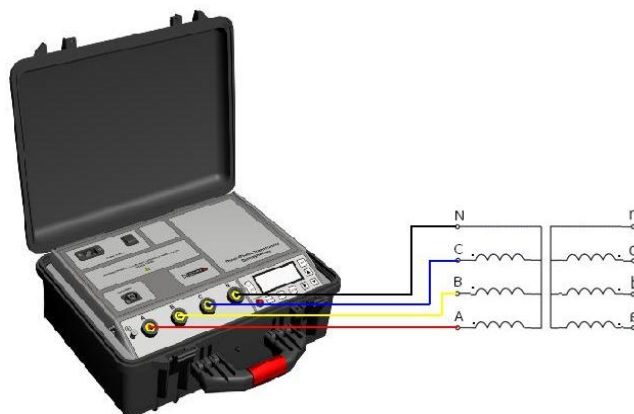
After a DC current test, such as a winding resistance measurement, the magnetic core of a power or instrument transformer may be magnetized (remanent magnetism). Also, when disconnecting a transformer from service, some amount of magnetic flux trapped in the core could be present.

The remanent magnetism can cause various problems such as erroneous diagnostic electrical measurements on a transformer, or an inrush current at start-up of power transformer, or incorrect operation of protective relays due to magnetized CT cores.

To eliminate this source of potential problems, demagnetization should be performed.

When suspecting remanent magnetism, or when various test results, like FRA or magnetization/excitation current, show possible remanency use the DEM60 to perform fully automatic demagnetization.

Demagnetizing magnetic core of a transformer requires alternating current applied with decreasing magnitude down to zero. The DEM60 provides this alternating current by internally changing the polarity of a controlled DC current. During the demagnetization process the instrument supplies current at decreasing magnitude for each step, following a proprietary developed program.



### DV-Win

Using DV-Win software, instrument can be operated and controlled from a PC. The standard interface is USB and optional RS232.

## Discharging Circuit

Injection of current and discharging energy from the inductance are both automatically regulated. During and after the operation, an intrinsically safe discharge circuit with an indicator rapidly dissipates the stored magnetic energy. The discharging circuit is independent of power supply.

## Accessories

### Included

- ✓ DV-Win PC software, USB cable
- ✓ Mains power cable
- ✓ Ground (PE) cable

### Recommended

- ✓ Current cables 4 x 10 m 10 mm<sup>2</sup> with TTA clamps
- ✓ Cable plastic case

### Optional

- ✓ Current cables 4 x 15 m 10 mm<sup>2</sup> with TTA clamps
- ✓ Cable bag



Current cables

## Technical data

### 1 – Mains Power Supply

- Connection according to IEC/EN60320-1; C320
- Voltage 90 V – 264 V AC, 50 / 60 Hz, single-phase
- Power consumption 2250 VA
- Fuse 15 A / 250 V, type F

### 2 – Output data

- Test current 5 mA DC – 60 A DC
- Test voltage 60 V DC

### 3 – Environmental conditions

- Operating temperature -10 °C - +55 °C / 14 F - +131 F
- Storage and transportation -25 °C - +70 °C / -13 F - +158 F
- Humidity 5 % - 95 % relative humidity, non condensing

### 4 – Dimensions and Weight

- Dimensions 480 x 190 x 385 mm (W x H x D)  
18,90 x 7,48 x 15,16 in
- Weight 13,1 kg / 28,8 lb

### 5 – Warranty

three years

### 6 – Applicable Standards

- Installation/overvoltage: category II
- Pollution: degree 2
- Safety LVD 2006/95/EC, (CE Conform)  
Standard EN 61010-1
- EMC Directive 2004/108/EC (CE Conform)  
Standard EN 61326:2006

\*Specifications are subject to change without notice.