

## MI 3299 HV Demonstration Box 10 kV

# Multi-purpose high-voltage demonstration box



High voltage Demonstration Box 10kV has been developed for demonstration purposes at high voltage insulation diagnostics.

It is equipped with high quality resistors in different ranges, high voltage capacitors and a discharge facility to simulate a breakdown phenomenon in gases.

Additionally measurements of polarization index (PI), dielectric discharge (DD) and dielectric absorption ratio (DAR) can be demonstrated.

Packed with all these features the demonstration box is also well suited for basic calibration of DC high voltage insulation resistance instruments.

### General specification

- |                             |                    |
|-----------------------------|--------------------|
| • Dimensions (W × L × H)    | 440 × 320 × 110 mm |
| • Weight                    | 4 kg               |
| • Protection classification | Basic insulation   |
| • Over-voltage category     | 10 kV CAT I        |
| • Pollution degree          | 2                  |
| • Degree of protection      | IP 20              |

### Reference conditions

- |                               |                 |
|-------------------------------|-----------------|
| • Reference temperature range | 10 °C ÷ 30 °C   |
| • Reference humidity range    | 40 %RH ÷ 60 %RH |

### Operation conditions

- |                             |  |
|-----------------------------|--|
| • Working temperature range | 5 °C ÷ 40 °C                           |
| • Maximum relative humidity | 90 % RH (5 °C ÷ 40 °C), non-condensing |

### Highlights

- 10 kV rated resistors with very low voltage coefficient
- Resistive decade with 200 k $\Omega$ , 500 M $\Omega$ , 200 G $\Omega$  and 2 T $\Omega$  resistors
- Demonstration of insulation breakdown in gases
- HV capacitors in 2.5  $\mu$ F and 5 nF range
- Lightweight and portable design

### Target applications:

- Basic calibration of DC high voltage insulation testers
- Demonstration of insulation diagnostics measurement with DC test voltage
- Demonstration of HV insulation testers for sales purposes
- Training centres, schools, laboratories

### Standard set:

- Demonstration board MI 3299
- HV test leads, 2 pieces
- User manual
- Booklet Guide to modern insulation testing
- Product verification data