

## Insulation resistance

Insulation resistance (test voltages 100 Vdc and 250 Vdc)  
Measuring range according to EN 61557 is 0.15 M $\Omega$  ... 999.9 M $\Omega$

| Measuring range (M $\Omega$ ) | Resolution (M $\Omega$ ) | Accuracy                         |
|-------------------------------|--------------------------|----------------------------------|
| 0.00 ... 19.99                | 0.01                     | $\pm(5\%$ of reading + 3 digits) |
| 20.0 ... 199.9                | 0.1                      | $\pm 10\%$ of reading            |
| 200 ... 999                   | 1                        | $\pm 20\%$ of reading            |

Insulation resistance (test voltages 500 Vdc, 1000 Vdc and 2500 Vdc)  
Measuring range according to EN61557 is 0.15 M $\Omega$  ... 100 G $\Omega$

| Measuring range                      | Resolution (M $\Omega$ ) | Accuracy                         |
|--------------------------------------|--------------------------|----------------------------------|
| 0.00 M $\Omega$ ... 19.99 M $\Omega$ | 0.01                     | $\pm(5\%$ of reading + 3 digits) |
| 20.0 M $\Omega$ ... 199.9 M $\Omega$ | 0.1                      | $\pm 5\%$ of reading             |
| 200 M $\Omega$ ... 999 M $\Omega$    | 1                        | $\pm 5\%$ of reading             |
| 1.00 G $\Omega$ ... 4.99 G $\Omega$  | 10                       | $\pm 10\%$ of reading            |
| 5.00 G $\Omega$ ... 19.99 G $\Omega$ | 10                       | $\pm 20\%$ of reading            |
| 20.0 G $\Omega$ ... 99.9 G $\Omega$  | 100                      | $\pm 20\%$ of reading            |

| Measuring range     | Resolution (V) | Accuracy                         |
|---------------------|----------------|----------------------------------|
| 0 V ... 1999 V      | 1              | $\pm(3\%$ of reading + 3 digits) |
| 2.00 kV ... 3.00 kV | 10             | $\pm 3\%$ of reading             |

## Dielectric absorption ratio DAR, Polarization index PI

| Measuring range | Resolution | Accuracy                         |
|-----------------|------------|----------------------------------|
| 0.01 ... 9.99   | 0.01       | $\pm(5\%$ of reading + 2 digits) |
| 10.0 ... 100.0  | 0.1        | $\pm 5\%$ of reading             |

## Continuity (200 mA)

Measuring range according to EN61557 is 0.16  $\Omega$  ... 1999  $\Omega$

| Measuring range ( $\Omega$ ) | Resolution ( $\Omega$ ) | Accuracy                         |
|------------------------------|-------------------------|----------------------------------|
| 0.00 ... 19.99               | 0.01                    | $\pm(3\%$ of reading + 3 digits) |
| 20.0 ... 199.9               | 0.1                     | $\pm 5\%$ of reading             |
| 200 ... 1999                 | 1                       | $\pm 10\%$ of reading            |

Open-circuit voltage 6.5 Vdc ... 9 Vdc  
Measuring current min. 200 mA into load resistance of 2  $\Omega$   
Test lead compensation up to 5  $\Omega$   
Automatic polarity reversal of the test voltage.

## Continuity (7 mA)

| Measuring range ( $\Omega$ ) | Resolution ( $\Omega$ ) | Accuracy                         |
|------------------------------|-------------------------|----------------------------------|
| 0.0 ... 19.9                 | 0.1                     | $\pm(5\%$ of reading + 3 digits) |
| 20 ... 1999                  | 1                       | $\pm 10\%$ of reading            |

Open-circuit voltage 6.5 Vdc ... 9 Vdc  
Short-circuit current max. 8.5 mA  
Test lead compensation up to 5  $\Omega$

## Voltage

| Measuring range (V) | Resolution (V) | Accuracy                         |
|---------------------|----------------|----------------------------------|
| 0.00 ... 9.99       | 0.01           | $\pm(3\%$ of reading + 3 digits) |
| 10.0 ... 99.9       | 0.1            | $\pm(3\%$ of reading + 3 digits) |
| 100 ... 550         | 1              | $\pm(3\%$ of reading + 3 digits) |

Result type True r.m.s. (TRMS)  
Nominal frequency range 0 Hz, 15 Hz ... 500 Hz

## Frequency

| Measuring range (Hz) | Resolution (Hz) | Accuracy                          |
|----------------------|-----------------|-----------------------------------|
| 0.00 ... 19.99       | 0.01            | $\pm(0.2\%$ of reading + 1 digit) |
| 20.0 ... 199.9       | 0.1             | $\pm(0.2\%$ of reading + 1 digit) |
| 200 ... 500          | 1               | $\pm(0.2\%$ of reading + 1 digit) |

Nominal voltage range 10 V ... 550 V