

# DATA SHEET

## Line leakage tester **AI 5601D**



Line leakage tester AI 5601D  
Plug-in 19" / 4 HU in housing

|                                    |                                                                                                                                                                                                                                                                                                                                                                           |                                                                                  |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Description</b>                 | A line leakage tester is mainly (but not exclusively) necessary in medical technology. With this test the DUT in operation under voltage makes measurements which could not be performed without supply of the DUT. Additionally error simulations are necessary. The line leakage tester AI 5601D fully meets these requirements. Measured is the earth leakage current. |                                                                                  |
| <b>Leakage current measurement</b> | Voltage range                                                                                                                                                                                                                                                                                                                                                             | 0 up to 250 V                                                                    |
|                                    | Measuring range 1 mA                                                                                                                                                                                                                                                                                                                                                      | 0 up to 1 mA                                                                     |
|                                    | Measuring range 10 mA                                                                                                                                                                                                                                                                                                                                                     | 0 up to 10 mA                                                                    |
| <b>DUT supply</b>                  | Voltage                                                                                                                                                                                                                                                                                                                                                                   | 0 up to 250 V AC                                                                 |
|                                    | Current                                                                                                                                                                                                                                                                                                                                                                   | 5 A AC                                                                           |
| <b>Release current</b>             | Measuring range 1mA                                                                                                                                                                                                                                                                                                                                                       | 0 up to 1 mA                                                                     |
|                                    | Measuring range 10 mA                                                                                                                                                                                                                                                                                                                                                     | 0 up to 10 mA                                                                    |
| <b>Operating modes</b>             | Earth leakage current                                                                                                                                                                                                                                                                                                                                                     |                                                                                  |
|                                    | Touch current                                                                                                                                                                                                                                                                                                                                                             |                                                                                  |
|                                    | Simulation of first fault                                                                                                                                                                                                                                                                                                                                                 |                                                                                  |
| <b>Technology</b>                  | • Test device for earth leakage current and touch current                                                                                                                                                                                                                                                                                                                 |                                                                                  |
|                                    | • Measurement circuit (according to European standards)                                                                                                                                                                                                                                                                                                                   |                                                                                  |
|                                    | • Internal, potential-free source for the DUT supply                                                                                                                                                                                                                                                                                                                      |                                                                                  |
|                                    | • Secondary-side detection of current and voltage                                                                                                                                                                                                                                                                                                                         |                                                                                  |
| <b>General data</b>                | Dimensions (HxWxD) and weight                                                                                                                                                                                                                                                                                                                                             | 222 x 483 x 480 mm / approx. 18.0 kg<br>8.7 x 19.0 x 18.9 in. / approx. 39.7 lbs |
|                                    | Mains supply                                                                                                                                                                                                                                                                                                                                                              | 230 V / 50 Hz, option 115 V / 60 Hz                                              |
| <b>Operation</b>                   | Adjustment button / switch                                                                                                                                                                                                                                                                                                                                                | analogue instruments class 1.5                                                   |