



LI4000 - HIGH CURRENT INDUCTANCE ANALYSER

INDUCTANCE AND SATURATION MEASUREMENT UP TO 4000A

The LI4000 offers the possibility to identify the inductance characteristic of a choke over a wide current range with only one measurement. This method easily allows to verify the inductance and saturation behavior as well as the resistance.

The LI-Control software provides an easy and intuitive handling to setup and start a measurement. The measurement results and calculations of current, voltage and inductance are shown as graphical curves. The data can be exported to a file or summarized in a report.

3-phase chokes can also be tested with manual reconnection or with automatic switching by using our optional 3-phase extension unit.

APPLICATIONS

- Power choke and coil testing
- Industrial production test
- Research and development
- Magnetic circuit design
- Maintenance and repair

FEATURES

- Inductance measurement with high pulse current
- Resistance measurement
- Up to 4000A and 4000J
- PC controlled desktop device
- USB & Ethernet interface
- Data export as Excel / CSV file

BENEFITS

- Easy-to-use and compact size
- Simple saturation measurement
- High measurement current
- System integration possible
- 3-phase measurement as option

LI4000

Technical Specifications

Pulse Voltage	10V to 450V
Maximum Pulse Energy	4000J
Maximum Current	4000A
Current Measurement Ranges	4000A, 2000A, 800A, 400A, 200A, 80A
Resistance Measurement Ranges	2000mΩ, 200mΩ, 20mΩ
Current Measuring Accuracy¹	± (0.10% + 0.10%)
Voltage Measuring Accuracy¹	± (0.10% + 0.10%)
Resistance Measuring Accuracy¹	± (0.15% + 0.30%)
Interfaces	USB and Ethernet
Safety Features	Connection for external emergency stop, safety circuit, warning lamps
Power Supply	90-260V, 50-60Hz
Dimensions (WxHxD)	449 x 266 x 495mm (19", 6U)
Weight	25kg

¹Accuracy notation: ± (% of reading + % of range)

Ordering Informations

Article	Order number
LI4000 High Current Inductance Analyser Included Accessories	LI4000
<ul style="list-style-type: none">• Test leads for sense and force connections• USB and Ethernet cable• Mains cable• Safety circuit plug• Instruction manual• Software on USB-stick• Calibration certificate	
Optional Accessories	
3-Phase Extension	LI-3PH2
Safety circuit plug	ACC-SCP1
Warning Lamp	ACC-WL1
Kelvin Test Lead Set, up to 400A	LI-KTL400A
Kelvin Test Lead Set, up to 1000A	LI-KTL1000A
Kelvin Test Lead Set, up to 4000A	LI-KTL4000A



SOLFAS TECHNOLOGIE GMBH

We specialize in the development and distribution of test systems, power supplies and measuring instruments. Experts in electrical testing and automation, our company offers a broad range of high-performance full-service testing solutions and measuring instruments. We provide clients in the automotive, aerospace, energy and traditional industry sectors with the equipment they need to test high power components, such as chokes, transformers and electric motors.