

POWER CHOKE TESTER DPG10/20 SERIES



MORE THAN JUST A HIGH CURRENT INDUCTANCE ANALYZER!

The **Power Choke Tester DPG10/20** series is an innovative measurement instrument series for all inductive power components. The impulse measuring method provides a complete inductance curve as a function of the current $L(i)$ or as a function of the applied time-voltage-integral $L(\int U dt)$. Besides the incremental inductance and the secant inductance a lot of other variables can be measured.

The **Power Choke Tester DPG10/20** series is established worldwide as a quasi-standard test device for the development, manufacture and quality control of inductive power components.

Features

- Measurement of the **incremental inductance** and the **secant inductance**
- Measurement of the **flux linkage**, the **magnetic co-energy** and the **DC resistance**
- Calculation of the **flux density**
- By means of the optional 3-phase Extension Unit also suitable for **3-phase chokes**

Advantages

- **Lightweight, small and affordable pricepoint** despite of the high measurement current up to 10000A
- **High sample rate and very wide pulse width range => suitable for all core materials**

Software

- **Easy and intuitive operation** via a user-friendly graphical user-interface
- Measurement results shown as **diagram** and as **table**
- **Measurement report** in pdf-format, **data export and data storage** (XML, CSV)
- **Easy integration** in automated test environments by means of a DLL or by LabView

Applications

- Very wide current range from <0.1A up to 10000A => **suitable for all inductive components from small SMD inductors to very large power reactors in the MVA range.**
- **Development, research and quality inspection**
- **Routine tests** of small batch series and mass production

POWER CHOKE TESTER

DPG10 SERIES



Technical specifications

	DPG10-100B	DPG10-1000B	DPG10-1500B	DPG10-1500B/E	DPG10-3000B/E	DPG10-4000B/F
Pulse current range 1 [A]	0.1 - 1	1 - 10	1 - 10	1 - 10	3 - 30	4 - 40
Pulse current range 2 [A]	1.1 - 10	11 - 100	11 - 100	11 - 100	31 - 300	41 - 400
Pulse current range 3 [A]	10.1 - 100	101 - 1000	101 - 1500	101 - 1500	301 - 3000	401 - 4000
Pulse energy, max. [J]	1350	1350	1350	2750	2750	7700
Pulse voltage				10 - 400V		
Pulse width, max.				3µs - 70ms		
Accuracy				See „Description and technical data“		
Interface				USB and RS232		
Power supply				207 - 253VAC / 50 - 60Hz; optional 103 - 127VAC or 90 - 110VAC; 450VA max.		
Dimensions				365 (W) x 325 (L) x 167 (H) mm ³		470 x 500 x 167 mm ³
Weight [kg]	9.0	9.0	9.0	10.7	10.7	21.5

Scope of delivery

- DPG10 - 100B | - 1000B | - 1500B | - 1500B/E | - 3000B/E | - 4000B/F
- Cable set
 - Test leads 2 x Force + 1 x Sense, 0.6m each with alligator clips
 - USB cable and RS232 cable
 - Power cord
- PC software for Windows
- Instruction manual (German or English)
- Calibration certificate
- Library (DLL) for integration of the instrument into automated test environments using your own applications or LabVIEW

Accessories

- 3-Phasen Extension Unit (EXT1 and EXT2)
- Kelvin test leads for small measuring objects up to 30A (KK12-4)
- Kelvin test leads up to 250A (KK11-4)
- Kelvin test leads up to 1500A (KK12-6)
- Kelvin test leads up to 5kA (KK11-6)
- Test lead set long, length 2m (KL11-4 and KL11-6)
- Hard-top case for all models up to 3000A (CASE1)
- Customized test leads on request

POWER CHOKE TESTER DPG20 SERIES



MORE THAN JUST A HIGH CURRENT INDUCTANCE ANALYZER!

Technical specifications

	DPG20-10000B/G
Pulse current range 1 [A]	10 - 100
Pulse current range 2 [A]	101 - 1000
Pulse current range 3 [A]	1001 - 10000
Pulse energy, max. [J]	15000
Pulse voltage	20 - 780 V
Pulse width, max.	3µs - 70ms
Accuracy	See „Description“
Interface	USB and RS232
Power supply	108 - 264 VAC / 50 - 60 Hz; 1100 VA max.
Dimensions	470 (W) x 500 (L) x 340 (H) mm ³
Weight [kg]	41

Scope of delivery

- DPG20 - 10000B/G
- Cable set
 - Test leads 2 x Force + 1 x Sense, 0.6m each with alligator clips
 - USB cable and RS232 cable
 - Power cord
- Test lead set up to 10 kA (KL11-10)
- Kelvin test leads up to 5kA (KK11-6)
- Test lead set long, length 2m (KL11-6)
- PC software for Windows
- Instruction manual (German or English)
- Calibration certificate
- Library (DLL) for integration of the instrument into automated test environments using your own applications or LabVIEW

Accessories

- 3-Phase Extension Unit EXT2
- Kelvin test leads up to 250A (KK11-4)
- Kelvin test leads up to 1500A (KK12-6)
- Customized test leads on request