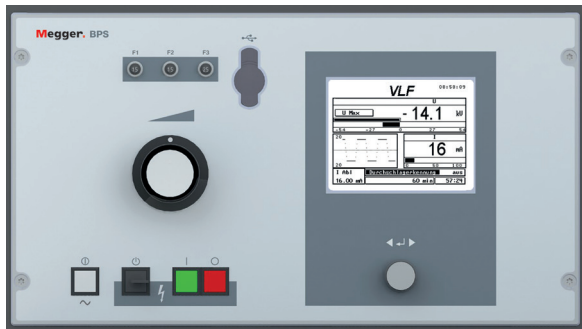


BPS 5000-C

Burn and proof test system for medium voltage cables



- **Control for AC-, DC- and VLF testing**
- **ARM® burning**
- **DC testing up to 110kV**
- **Burning up to 110A**
- **VLF testing up to 54kV / 5uF**
- **Integrated Sheath fault location**

DESCRIPTION

The BPS 5000-C is usually built into cable fault location systems, but can also be used as a portable device for fault converting or burning. In basic operations the digital control unit, can be used as a burner for cable faults that are difficult to locate, and as a control device for external test systems. With this external test system you can carry out conventional DC tests or the long-established and norm-compliant VLF cable test using the VLF 0.1 cosine rectangular wave form.

The leakage current is recorded during the VLF test, which is a special feature of the cosine rectangular wave form.

All essential measurements can be logged and transferred by using the integrated USB connection.

In combination with the Teleflex VX, the system can be used for ARM® Burning. This method allows high resistance faults to be located while completing a fault conversion.

Additionally, the system provides a sheath fault pinpointing function with clocked DC voltage.

The user is guided through the location process using the proven easyGO control system.

TECHNICAL DATA*

Fault conversion

Voltage/Current	0 ... 1.2 kV _{DC}	6.0 A
	4 kV _{DC}	1.5 A
	8 kV _{DC}	0.8 A
	15 kV _{DC}	0.5 A
	0 ... 60 V _{AC}	110 A
0 ... 240 V _{AC}	28 A	

DC test (with optional DC testing)

Voltage/Current	0 ... 80 kV, I _N 15 mA, I _{max} 50 mA
	oder
	0 ... 110 kV, I _N 7 mA, I _{max} 50 mA
Output power	1.5 kVA
Short circuit power	3.5 kVA (max. 1 h)

AC test

Voltage	58 kV _{AC}
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VLF – testing according to DIN VDE 0276

Voltage	0 ... 54 kV _{eff}
Max. load	21 µF bei 18 kV _{eff} @ 0.1 Hz
	8 µF bei 36 kV _{eff} @ 0.1 Hz
	5 µF bei 54 kV _{eff} @ 0.1 Hz
Nominal current	15 mA +/- 3 mA
Input power	1 kVA

Sheath fault location

Output voltage	0 ... 10 kV
Output current	800 mA (up to 5 kV)
	500 mA (up to 10 kV)
Clock	1:3

General

Display	LCD, resolution 320 x 240
Operating temperature	- 10 °C ... + 40 °C
Temperature range	Software controlled shutdown @ 120 °C
	Hardware controlled shutdown @ 145 °C
Input voltage	230 V +/- 10 %, 45 ... 60 Hz
Power consumption	Max. 7 kVA
Protection class	IP20
Safety class	I

* We reserve the right to make technical changes.

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