



Film Capacitors – Power Factor Correction

Data logger BR6000-R12/S485 / BR7000

Series/Type:	DataLogSD
Ordering code:	B44066R1311E230
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Version:	1

Features

- Data logger for PF controller BR6000-R12/S485 / BR7000
- Recording of grid parameters, switching behaviour and temperature values of a system on SD-card
- Visualisation and evaluation via comfortable Windows-based software
- Compact design in plastic casing
- Evaluation software, SD-card, connection cable included in the delivery
- No extra auxiliary voltage supply needed



Technical data and specifications

Dimensions	66 x 66 x 28 mm (h x w x d)
Weight	ca. 0.1 kg
Power supply	Self-supporting via interface BR6000-R12/S485 / BR7000
Power consumption	ca. 50 mA
Recorded grid parameters	Voltage, current, reactive, effective and apparent power, frequency, harmonics up to 31 st of V and I, power factor (cos φ), THD-V, THD-I, energy
Recorded parameters of the compensation system	System temperature, step output, control history of the system (switching operations, switching behavior, power-on-time)
Supported devices	BR6000-R12/S485 (version V5.0 onwards) BR7000
Recording interval/recording time	1 sec./10 sec. switchable
Connections	System interface RS485 (RJ45-jack)
Degree of protection (VDE 0470)	IP20
Extend of delivery	Compact device, SD-card 1 GB, Software-CD, patch cable 0.5 m
Max. ambient operating temperature	-10 ... +50 °C
Storage temperature	-20 ... +75 °C



Areas of usage

- Storage of grid parameters for a time interval for (graphical) evaluation via PC-software included in the delivery
- Recording and evaluation of minimum and maximum values
- Recording of voltage and power curves
- Recording and evaluation of harmonics in the grid

Evaluation of status and control behaviour of the compensation system by

- Investigation of the correlation between switching behaviour, $\cos \varphi$ and remaining reactive power – thus fault detection and optimization of the system settings
- Evaluation of system dimensioning
- Recording of switching operations and switching times of all steps: detection of wear-off of switching devices
- Review of target output of switched steps compared to the measured reactive power – detection of defective steps possible
- Recording of temperature in the compensation system, early detection of thermal problems

Evaluation software for PC (Windows-compatible) included in the delivery

The particular PC-software allows the comfortable evaluation of the measured data, assessment of grid parameters.

- Display of grid parameters, $\cos \varphi$, reactive power
- Reactive power of grid and system – $\cos \varphi$
- Reactive power of grid and system – step status
- Comparative display of ACTUAL and TARGET $\cos \varphi$
- Diagrams of switched reactive power of the system
- Harmonics
- Temperature curve of the system during measuring interval
- Number of switching operations and switching times of all steps as bar diagram – detection of wear-off



Cautions and warnings

The acquired measurement results must be considered as values that should help the user to track errors or for evaluating a compensation system. The final rating is incumbent on the user.

Note

For detailed information about PFC capacitors and cautions, refer to the latest version of EPCOS PFC Product Profile.

Important: Please note that the „General Safety Recommendations for Power Capacitors“ by ZVEI (German Electrical and Electronic Manufacturers’ Association (ZVEI) have to be observed in addition to the caution guidelines stated in the data sheet (Internet: www.epcos.com/pfc).

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