DataLogger BR6000 / BR7000

Features

■ Data logger for PF-controller BR6000/7000
■ Recording of grid parameters, switching behaviour and temperature values of a PFC-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 (D x H x W)
Weight	Approx. 0,1 kg
Power supply	Self-supporting via interface BR6000 / BR7000
Power consumption	Approx. 50mA
Recorded grid parameters	Voltage, current, reactive-, effective- and apparent power, frequency, harmonics up to 31st of V and I, power factor (cos phi), THD-V, THD-I, energy
Recorded parameters of the compensation system	System temperature, step output, control history of the system (switching operations, switching behaviour, power-on time)
Supported devices	BR6000-R12/S485 (version 5.0 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 1GB Software-CD, patch-cable 0.5m
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 φ and remaining reactive power – thus fault detection and optimization of the system settings
- Evaluation of the 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
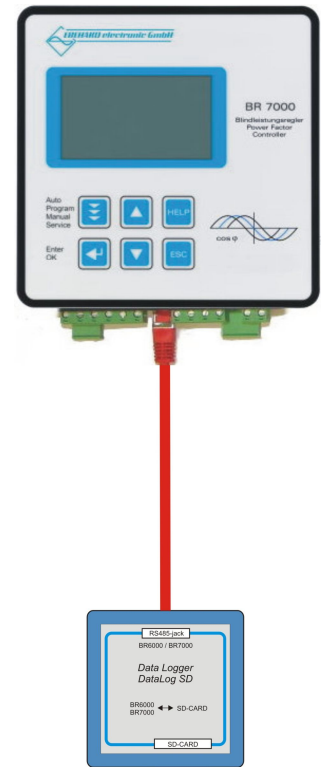
Evaluation software for PC (windows-compatible) included in the delivery

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

- Display of grid parameters, cos φ, reactive power
- Reactive power of grid and system - cos φ
- Reactive power of grid and system – step status
- Comparative display of actual and target cos φ
- 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