

POWER FACTOR CONTROLLER – BR7000

“Designed to Measure Actual Power Factor
and Connect or Disconnect Capacitor Stages”



FEATURES – BR7000

- LCD full graphic display, 128 X 64 dots, 8 lines
- Self explanatory menu navigation in five languages
- Three-phase measuring and controlling; display of following grid parameters:
 - Voltage
 - Current
 - Frequency
 - Real power
 - Reactive power
 - Apparent power
 - Power factor
 - Missing reactive power
 - Harmonic of voltage and current (up to 31st)
 - THD-V
 - THD-I
 - Temperature
- HELP-button for interactive help text
- 15 switching outputs
- 3 additional alarm / message relays
- 2 isolated interfaces
- Detailed error messages with time stamp
- Automatic initialisation / test run
- Automatic and manual operation, service operation and expert mode
- Three-phase and single-phase controlling; mixed mode possible
- Display and storage of maximum values
- Display of switching operations and operating time
- Display of date and time
- Time-controlled functions possible by internal timer
- Oscilloscope mode for graphical display
- Quick programming

GENERAL

The PF (Power Factor) controller, BR7000 is a follow up development of the BR6000 series, featuring two devices in one. It can be used as a controller as well as a grid measuring tool.

The BR7000 offers 15 relay outputs for the steps and three message / alarm relays. Due to the programming ability, the 15 outputs can be used for a broad range of applications, for example:

- 15 conventional steps, each for one three-phase capacitor
- 15 steps for single-phase capacitors, where each output will switch a single-phase capacitor to N (usually 5 per phase, balancing of grid is possible)
- Mixed operation: 6 single-phase capacitors (2 per phase) for balancing plus 9 steps for conventional compensation (three-phase capacitors)

The controller can be connected to a PC via a RS485 interface. The Windows-based software BR7000-SOFT allows the readout of acquired data. The possibility of graphical display of all values offers a comfortable visualisation.



Power Factor Controller – BR7000

Main technical parameters

Parameters	BR7000
Supply voltage	3.440 V AC (L-N)
Measurement voltage range	3.50...760 V AC (L-L)
Measurement current	3 x X:5 / X1A selectable

Evaluation Software - BR7000 - SOFT

Windows Based Software

This programme offers the possibility for a comfortable parameterisation, recording, analysis and visualisation of grid parameters in online operation via a PC.

The software allows the recording and graphical evaluation of all values including an export and print function. The spectrum of harmonics can also be displayed as a bar chart for an easy to read display of this information.

The configuration manager allows a complete read out, editing, storing and writing of all parameters of the PF controller via PC. All data can be stored as a configuration file.

FEATURES – BR7000 – SOFT

- Connection to RS485 – bus
- Administration of several PF controllers possible
- Convenient analysis of recorded values
- Direct connection to USB via a USB adaptor
- CD-ROM included

