# DC CONTROLLER
# UPC4

## Description

### THE NEXT GENERATION

DC Controllers of the new UPC4 series are integrated units for control, monitoring and signalling of DC-power supply systems with battery backup. The units are easy to use and programmable via the display unit panel or RS232/Ethernet interface in combination with PC software. On the basis of a freely programmable signal matrix, the customer is able to configure several alarms to groups and which of all the signalling outputs are to be used.

The unit is equipped with control outputs for LVD and PLD relays. The control of the rectifier modules is realised via a CAN communications bus. For remote monitoring the use of a direct PC link, modem SNMP, ModBus or Profibus is possible. A special software for remote monitoring and parameter adjustment is available. Due to the system wide CAN communication concept each of our modular power supplies such as rectifiers, DC/DC converters, inverters and static bypass switches can be monitored and controlled by the UPC4.

The functionality of the master unit can be extended with external CAN modules. For all measuring inputs the basic unit is used, this means that the basic unit can be placed close to the connection point and all values are transferred over the CAN connection.

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## KEY FEATURES

>> Extensive battery management

>> DIN Rail Mounting

>> Easy in use and programming

>> Freely programmable signalling concept

>> CAN-BUS Interface

>> Remote control and monitoring

## MAIN DATA

**UPC4 Master Unit**

Supply voltage: 3 x Redundant power supply inputs 24V ±10% with external power supply DC or AC

CAN interface: 2xRJ12 and 2xRJ45 Proprietary CAN protocol

Modem connection: 9-Pole SUB-D male RS232 (modem  optional, analogue,  ISDN or GPRS/GSM)

ModBus connection: 4-pole MSTB 5mm RS485

Profibus connection: 9-Pole SUB-D female RS485

Data: SD card max 4GB

**UPC4 Basic Unit.**

Voltage measuring range: 0-320VDC

Temperature measuring input
2x (sensor KTY81-220)

Supply voltage: Via 6-pole CAN-Bus cable from the DC controller unit; 8-12VDC

Current measuring range: ±0-60mV (shunt value programmable)

**Standard features**
Relay outputs:
3 (isolated; <=60VDC);
expandable with CAN node DCC-RB6 / UPC4 Basic Unit
Alarm log up to 250 events

**Other specifications**
Dimensions (W/H/D): 47/103/118mm
Weight: approx. 0.6kg

**Compliances**
CE conformity: yes
Compliance to safety standards:
EN60950-1;EN50178; EN60146
Compliance to EMC standards:
EN55011/22 class "B"; EN61000-4 T2-5

**Mounting**
DIN rail mounting

UPC4 MASTER UNIT



| Type designation | UPC4-Master | UPC4-Basic |
|---|---|---|
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