



Preliminary

DC CONTROLLER

UPC4-BASIC

Battery voltages:
24/48/60/110/125/220V_{DC}

KEY FEATURES

- **Extensive battery management**
- **DIN Rail Mounting**
- **Easy in use and programming**
- **Freely programmable signalling concept**
- **CAN-Bus interface**
- **Remote control and monitoring**

PRODUCT DESCRIPTION

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 basic unit is used for connection of all measuring inputs, this means that the basic unit can be placed close to the connection point and all values are transferred over the CAN connection.

APPLICATIONS

DC power supply systems with battery backup in all areas of industry, telecommunication, power generation and power distribution.

Multiple basic units can be connected to the master which enables measurements on different parts of the system such as secondary side of DC/DC converters etc..



Type	UPC4-Basic
Article code	xxx.xxxx.xxxx
Supply voltage	Via 6-pole CAN-Bus cable from the DC controller unit; 8-12Vdc, xxmA
Voltage measuring range	0-320VDC
Current measuring range	±0-60mV (shunt value programmable)
Power consumption	Max. xxW
Voltage measuring inputs	3
Current measuring inputs	3x +/-60mV
Temperature measuring input	2x (sensor KTY81-220)
LED indications	LED; Operation
Relay outputs	1 (isolated; max. 0.1A @ 300VDC)
Interfaces:	
CAN interface	2xRJ12, proprietary CAN protocol
Ambient temperature	Operation: -20°C to +55°C; non condensing; storage: -40°C to +85°C
Cooling	Convection cooling
Max. installation altitude	≤ 1500m
Audible noise	<30dBA
Type of construction	DIN Rail mounting
Dimensions (W/H/D)	23/100/110mm
Weight	approx. 0.2kg
Type of enclosure / Protection class	IP20 / 1
Colour	RAL 7035
CE conformity	yes
Compliance to safety standards	EN60950-1; EN50178; EN60146
Compliance to EMC standards	EN55011/22 class "B"; EN61000-4 T2-5

OPTIONS

Article code	Designation
xxxxxxxxxx	UPC4 Master unit
302-UP3-MMT.00	Configuration software "Multi Management Tool" (MMT)
302-003-RDD.00	Remote display for door mounting; connection via CAN interface
302-003-RDMD.00	Remote display for door mounting with mimic diagram; connection via CAN interface
xxxxxxxxxx	Remote display for 1HU for 19" Mounting; connection via CAN interface
302-DCC-0MM.00	Mains monitoring board 1/3 phase; DIN rail module; connection via CAN interface
302-DCC-0BM.00	Battery monitoring board DCC-BMB (for one additional battery string; U, U/2, I, T); DIN rail module; max. six modules DCC-BMB applicable
302-DCC-DI8.00	Signalling board with 8 digital alarm inputs; DIN rail module; connected via CAN interface
302-DCC-ORB.00	Relay board with 6 isolated signalling outputs; DIN rail module; connected via CAN interface
302-DCC-OFM.00	Fuse monitoring board (20 fuses, 24-60Vdc, 1-pole); open frame
302-UP3-SMP.00 302-UP3-0SW.02	SNMP adapter ; plug-in board; connection via Ethernet 10Base-T; SNMP monitoring software (Win)
302-UP3-0AM.00 302-UP3-0SW.01	Analog modem; Remote software for analog modem
302-TMP-KTY.04	Temperature sensor KTY81-220 T092 incl. connecting cable 4m in length; 2 wires à 0,34 mm²

DIMENSIONS

DS_UPC4_BASIC_2010_E_PRELIMINARY - Subject to change without notice - Eltek Valere Deutschland GmbH

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