Network

Door power controller



DIGIcontrol-PR+

- Intelligent uninterruptible door power supply
- IBB Interface for status report & diagnostic
- Coded relay interface for reader communication
- 12V/5A switched power supply with 84% efficiency
- Charging current monitoring & report
- Battery charging management for 12V/7Ah battery
- Temperature controlled charging for long battery life time
- 2x13,5V/1,2A with electronic fuse, monitoring & host control
- 4x monitored alarm inputs
- 1x Opto IN for fire forced door release
- 1x electronic relay 13.5V/0,5A
- 2x Relay 230VAV/10A
- Powder painted steel wall mount box with tamper contact

DIGIcontrol-PR+

DIGIcontrol-PR+ is a powerful extension for all ATS next generation Systems with extended need of distributed uninterruptible power supply and control for doors and rooms.

The wide input voltage range switched power supply for 100 - 240VAC ensures stable operation under all thinkable conditions. Featuring two CPU controlled switched power circuits enables the unit to regulate charging and supply voltage individually. This ensures also in case of power fail, when running on battery, a stable output voltage of 13,5VDC without any voltage drop.

A microprocessor controlled charging logic and I/O interface reports following important information to the IBB bus:

- 12 V Input voltage status
- Battery voltage & load current
- Battery temperature
- Battery quality status
- Battery installation date
- 2x Power output fuse status
- 1x Solid state relay with fuse status
- 4x alarm & 1x fire input status
- Tamper contact

An extra connector for the access reader includes beside the IBB, a coded relay interface for lock control. The door lock could be connected either to the onboard electronic relay with 13,5V/0,5A max. or to one of the 2 potential free high power relays. The potential free relays could be used either for turnstile control, for a second and third door lock or for lighting control.

An Opto-IN and IN4 of the four monitored could be used to bypass CPU to un-power Relay 1 in case of fire or emergency. All two output fuses can be controlled remotely with a reset or off/on command. A 2kB EEPROM memory allows to store configuration, bus-ID and time of new installed battery and characteristics.

A cyclic routine measures the battery resistance at 5A for 50ms to check the battery quality and give notice if battery is near to end of life time.

The front panel shows with four dual colours LED's, status of CPU, main Power, 12V Power and Battery status.

A solid powder painted steel wall mount box includes power supply, controller and space for one 12V/7Ah battery including connection cables. A tamper contact reports unauthorized opening of the housing.

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Technical Data:

- AT89C51 CMOS microprocessor with 64kB Flash
- 2kB EEPROM for configuration data's
- 4x Dual-LEDs for status display
- 4x balanced alarm inputs
- 2x 13,5V 1,2A power out,
- Electronic fuse with remote reset and ON/OFF control,
- 1x Solid-state relay for lock control 13,5V/0,5Amax
- 2x Potential free relays 230VAC/10A
- 1x Tamper contact
- 1x Battery temperature sensor
- 1x RS485 Intelligent Building Bus (IBB) to floor controller
- 1x IBB loop through connector for access reader & coded relay interface
- 1x Opto-IN 24V for emergency release of Relay 1
- 1x Temperature controlled battery charging
- 1x cyclic battery quality control
- Temperature range: -10° to $+50^{\circ}C$
- Power supply: 60VA 100-240VAC / 12V DC 5A 84% efficiency typically
 - MTBF: 100.000Hrs at full load 25°C

Dimensions: W200 x H220 x D70mm Temperature range: -10° to +45°C

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Delivery:

DIGIcontrol-PR+ complete with, installation & wiring instructions; no batteries

Variants:

DIGIcontrol-PW

As DIGIcontrol-PR+ but with Wiegand interface instead of IBB loop through / coded relay connector

DIGIcontrol-PRX

As DIGIcontrol-PR+ but with without battery charging logic

DIGIcontrol-PRX/W

As DIGIcontrol-PRX but with Wiegand interface instead of IBB loop through / coded relay connector

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Information contained in this document is correct at the time of publication (110118) is subject to change without notic

