

# Compack Controller

## Monitoring and Control Unit

SMALL WITH ALL

“All-in-one” plug-in controller. Comprehensive functionality in a small box designed for small range power systems.



# COMPACT CONTROLLER

Doc 242100.400.DS3 – v5

### APPLICABLE SYSTEMS

#### TELECOM

- CHAMELEON
- MICROPACK 48V
- MINIPACK 1U
- PLATPACK2 DC/DC IN INTERFACE KIT

#### INDUSTRIAL

- MICROPACK 12V & 24V
- COMPACT INTERFACE KIT



COMPACT IN INTERFACE KIT (PN 242100.900)



MINIPACK 1U 1600W SYSTEM



MICROPACK 1000W CONVECTION COOLED SYSTEM



COMPACT IN CHAMELEON SYSTEM

### KEY FEATURES

- REMOTE MONITORING VIA ETHERNET
  - SNMP (v3,v2c,v1)
  - WEB PAGES
  - EMAIL OF LOGS AND ALARMS
- 3 CONFIGURABLE RELAYS
- 3 MULTIPURPOSE INPUTS
  - TEMPERATURE
  - SYMMETRY
  - DIGITAL INPUT
- 2 LVD CONTROLS (LVBD+LVLD)
- 12V,24V,30V,48V & 60V SUPPORTED
- BATTERY MONITORING
  - AUTO/PERIODIC TEST
  - CAPACITY/QUALITY ESTIMATION
- ELTEK SOFTWARE SUPPORTED
  - ELTEK NETWORK UTILITY
  - MULTISITE MONITOR
  - POWER SUITE

# COMPACT CONTROLLER



FOR 12V, 24V, 30V, 48V & 60V SYSTEMS

## ELECTRICAL SPECIFICATIONS

Input Voltage	9 - 75 V <sub>DC</sub> , shutdown < 8.5 V <sub>DC</sub> *
Temperature Range	Nominal: -20 to +60 C (-4 to 140 F) Reduced accuracy: -40 to +70 C
Power Consumption	3W
MTBF	> 550, 000 hours Telcordia SR-332 Issue I, method III (a) (T <sub>ambient</sub> : 25°C)
Ethernet port	10/100 BASE-T HP Auto MDI/MDI-X
Relay Outputs (1,5 mm2)	Form-C (dry contact NO-C-NC), Max 75V/2A/60W breaking capacity
Configurable Inputs (1,5 mm2)	Temperature: External NTC, "Digital": open/closed, Analog: 0-75V, Battery Symmetry: 0-75V

## CONTROL FEATURES

Control System	<ul style="list-style-type: none"> <li>o Output Voltage Measurement</li> <li>o Load Current Calculation</li> <li>o Energy Calculation</li> <li>o Load/Battery Disconnect</li> <li>o Real Time Clock with Battery Backup</li> <li>o Stored Site Text/ID and Messages</li> </ul>	<ul style="list-style-type: none"> <li>o Output Voltage Measurement Position (long/lat) for auto placement</li> <li>o Generator start/stop control setup</li> <li>o Test of Relay Outputs</li> <li>o Alarm grouping of events for relay outputs</li> <li>o Boolean AND of alarm groups</li> </ul>
Battery	<ul style="list-style-type: none"> <li>o Battery Current Measurement</li> <li>o Battery Temperature Measurement</li> <li>Battery Testing (acc. to discharge table or set time limit)</li> <li>o Setup of Battery Data/Table</li> <li>o Battery Capacity Indication</li> <li>o Battery Boost Charging                             <ul style="list-style-type: none"> <li>- Auto – Ah discharge or voltage threshold</li> <li>- Interval or Manual</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>o Temperature Compensated Charging</li> <li>o Charge Current Limitation</li> <li>o Battery Low Voltage Disconnect                             <ul style="list-style-type: none"> <li>- Temperature dependent (optional)</li> <li>- Mains independent (optional)</li> </ul> </li> </ul>
Rectifier	<ul style="list-style-type: none"> <li>o Available information about each rectifier, e.g. serial number, version, internal temperature</li> <li>o Individual Rectifier Current Measurement</li> <li>o Individual Rectifier Input Voltage</li> </ul>	<ul style="list-style-type: none"> <li>o Energy calculation</li> <li>o Efficiency Management</li> <li>o Emergency Voltage</li> <li>o Startup delay</li> <li>o Detailed internal alarms summary</li> </ul>

## ALARMS / EVENTS AVAILABLE

Alarms can be set up with monitoring of minor and major levels. Hysteresis and time delay is user configurable. All average and peak levels on analogue values are auto logged.

Power & Control System	<ul style="list-style-type: none"> <li>o AC Mains Low (2-level)</li> <li>o AC Phase Voltage x3 (2-level)</li> <li>o "Digital" Inputs (programmable descriptions)</li> <li>o Events trigger by inputs</li> </ul>	<ul style="list-style-type: none"> <li>o Service mode (block relays), Generator running, Lower charge current limit, Battery test, Boost Inhibit, Emergency low voltage, Clear manual reset alarms.</li> </ul>
Load	<ul style="list-style-type: none"> <li>o Load Disconnect                             <ul style="list-style-type: none"> <li>- Voltage or Timer (from mains failure) based</li> <li>- Mains independent (optional)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>o Load Fuse</li> <li>o Load Current</li> </ul>
Battery	<ul style="list-style-type: none"> <li>o Battery Voltage (4-level, optional 8-level)</li> <li>o Battery Temperature (2-level)</li> <li>o Battery Used Capacity (2-level) [Ah or %]</li> <li>o Battery Remaining Capacity (2-level) [Ah or %]</li> <li>o Battery Fuse</li> </ul>	<ul style="list-style-type: none"> <li>o Symmetry Failure (2-level)</li> <li>o Battery Quality after test (2-level)</li> <li>o Battery Current (4-level)</li> <li>o Battery Life Time (2-level) [from temperature log]</li> </ul>
Rectifier/Converter	<ul style="list-style-type: none"> <li>o Rectifier Failure (2-level)</li> <li>o Rectifier Capacity (2-level)</li> <li>o Rectifier Current (2-level)</li> </ul>	<ul style="list-style-type: none"> <li>o Rectifier Avg. Temperature (2-level)</li> <li>o Rectifier Current Share (2-level)</li> </ul>

## DATA LOGGING

Control System	Event log, Data log (configurable up to 20 monitors), Configuration Change log, Account Access log
Energy	Energy delivered from Rectifiers, Solar Charger and Battery, and consumed energy by the load for the last 52 hours, 52 days and 52 weeks
Battery	10 last battery tests detailed, number of battery cycles for the last 52 hours, 52 days and 52 weeks
Generator	Run time in minutes and fuel consumption for the last 52 hours, 52 days and 52 weeks

Model	Compact	Compact Interface Kit
Part number	242100.400	242100.900
Dimensions (HxWxD)	75 x 30 x 115mm / 2.95 x 1.2 x 4.52"	107.6 x 41.4 x 175.5mm / 2.24 x 1.63 x 6.91"
Weight	240g / 0.53 lbs	380g / 0.84 lbs

\* 12V support from HW rev. HW1.3. HW version 1.0 – 1.2 input voltage range: 17 – 75 V<sub>DC</sub>