

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.



COMPACK CONTROLLER

242100.400.DS3- v4.2

REMOTE MONITORING AND CONTROL

Pc running PowerSuite

Through a Windows™ based communication program (PowerSuite) installed on a remote computer the system can be monitored and controlled via Ethernet network (UDP “Tunneling”)

PC running a WEB Browser

Detailed web pages for monitoring, configuration, diagnostics and log access

NMS/OSS Platform via SNMP

MIB file supplied for Network Management System (NMS) monitoring through Ethernet on SNMP v1/v2c/v3

Software upgrades / Network setup

Via Ethernet port with EV Network Utilities application. DHCP assigned IP address is default enabled

email

All TRAPs can also be sent as emails to two user specific email addresses

KEY FEATURES

- VISUAL ALARMING
LEDs for local visual alarming (Major, Minor, Power ON)
- MONITORING AND CONTROL
Ethernet for remote or local monitoring and control via WEB Browser
- EASY DETECTION AND CORRECTION
Ethernet port with HP Auto MDI/MDI-X for detection and correction for straight-through and crossover cables.
- SNMP PROTOCOL WITH TRAP, SET AND GET ON ETHERNET. EMAIL OF TRAP ALARMS
- 3 PROGRAMMABLE RELAY OUTPUTS FOR “TRADITIONAL” REMOTE MONITORING.
- MULTIPURPOSE INPUTS
3 programmable multipurpose inputs (temperature, “digital inputs”, analog voltage, battery symmetry)
- COMPREHENSIVE LOGGING
- AUTOMATIC BATTERY MONITORING AND TEST
Battery lifetime indication
Battery used and remaining capacity (Ah or %) monitoring
- USER DEFINED ALARM GROUPING
(boolean logic for grouped alarms)
- WINDOWS BASED APPLICATION
Uploading and Downloading of configuration files with PowerSuite or Eltek Network Utility (ENU) (Windows™ applications)

DATA LOGGING

Event log	Up to 10 000 events stored
Data log	7 user selectable analogue or calculated time stamped values can be logged with configurable interval (normal and critical interval) up to 10 000 times
Energy log	52 times back energy Wh (kWh) stored on hourly, daily and weekly basis. Rectifier or Solar Charger supplied and Load consumed
Battery temperature log	Battery life time indication based on recorded temperature in 10 temperature ranges with multiplying factor for reduced lifetime
Battery test log	Last 10 battery test results with test type, test duration [min], average discharge current [A], discharged capacity [Ah], test result quality [%] and detailed discharge curves with minute by minute current and voltage

SPECIFICATIONS

Input Voltage	9-75 V _{DC} , shutdown < 8.5 V _{DC} *	
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 _{ambient} : 25°C)	
Dimensions (HxWxD)	75 x 30 x 115mm / 2.95 x 1.2 x 4.52"	
Weight	240g / 0.53 lbs	
Ethernet port	10/100 BASE-T HP Auto MDI/MDI-X	
Relay Outputs (1,5 mm ²)	Form-C (dry contact NO-C-NC), Max 75V/2A/60W breaking capacity	
Configurable Inputs (1,5 mm ²)	"Digital": open/closed Analog: 0-75V	Temperature: External NTC Battery Symmetry Monitoring

CONTROL FEATURES

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

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

ORDERING INFORMATION

Part No.	Description
242100.400	Compact
* 12V support from HW rev. HW1.3. HW version 1.0 - 1.2 input voltage range: 17 - 75 V _{DC}	