ACM1000

FLEXIBLE ALARM AND CONTROL MODULE FOR MONITORING AND CONTROL OF STAND-ALONE POWER SYSTEMS

KEY FEATURES

- » Individual control of up to 12 rectifiers with extension capability
- » Automatic detection of rectifier and system faults
- » Hot-plug capability
- » Local key pad (three buttons) for local parameters configuration
- » Back lit display for monitoring (alarms and system status), control and configuration
- » Load voltage and current monitoring
- » Battery voltage and current monitoring
- » Flexible battery management: programmable temperature compensation and current limitation
- » Automatic/manual boost charge
- » Low voltage disconnect (LVD) to protect batteries against deep discharge
- » Non essential load disconnection to expand battery autonomy
- » Battery discharge test at constant current with automatic/manual initiation
- » Battery connection test with automatic/manualinitiation

- » Battery capacity meter
- » Local and remote alarm reporting with ~50 builtin alarms + 10 spare alarms (customer defined)
- » Alarm and battery tests history log files of 512 events with time stamping
- » Spare inputs for monitoring external devices
- » Spare outputs to control auxiliary devices (configurable conditions)
- » Proprietary protocol to monitor/configure the system with password protection (4 levels)
- » Win1000/Winsite Windows-compatible software
- » Remote access via optional modem
- » Remote access via optional TCP/IP gateway (SNMP, email, Web,...)
- » Alert capabilities on modem and SMS
- » Modbus/Jbus protocol
- » Equation interpreter for total customer flexibility in alarm condition definition and configuration
- » Expandable with optional extension boards (8 relays board,...)

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SPECIFICATION

For use in systems
MPS700, MP60, MP100, MP160, MTP2000C

For use with rectifiers
SM700, SM1600, SM1800, SM2000, SM5700

For use with PC software
Win1000e, Win1000, Winsite

INPUT	
Input voltage	18-75Vdc
Nominal current	0.4A (48V input)

CONNECTIONS	
Measurements	Load voltage Battery voltage Battery current (shunt measurement/Hall effect selectable) Load current (shunt measurement/Hall effect selectable) Temperature through analogue sensor Temperature through digital sensor (up to 2 sensors)
Alarm and general purpose outputs	Opto isolated outputs Urgent/Non urgent alarm reporting Spare output for customer defined control (fans,...) Front panel LED alarm indication (green/red)
Low voltage disconnect	Opto-isolated output LVD1 drive/feedback-controls battery low voltage contactor LVD2 drive/feedback-controls non-essential load contactor
Auxiliary inputs	17 digital inputs for rectifier fault detection, protection devices monitoring (fuses) and auxiliary equipment monitoring
Communications	Direct RS232 connection Or optional modem connection (PSTN/GSM), Or TCP/IP gateway (*Win1000 Windows interface software package available)

PROTECTION	
DC supply inputs	Internal input fusing on both DC polarities

MECHANICAL SPECIFICATION	
Dimensions	Controller board + display module assembly: height: 43mm (1 U)/width: 108mm/depth: 198mm **Controller board standalone:** height: 25mm/width: 100mm/depth: 167mm
Weight	<0.5kg
Ingress Protection	IP00 alone (IP20 when integrated in a system)
Mounting	Horizontal 1U, within associated systems, with adequate runners
Connections	Hot pluggable, with rear connection. Possibility for the display to be remote

ENVIRONNEMENTAL	
Cooling	Natural cooling
Operating temperature	- 25°C to + 70°C ambient
Storage temperature	- 25°C to + 80°C ambient
Humidity	0% to + 95%, non condensing
Altitude	0 - 4000m operating maximum

STANDARDS	
Safety	EN60950
EMC (inside system)	Emission: EN61000.6-3/6.4, EN61000.3-2/3.3, EN55022 Class B Immunity: EN61000.6-1/6-2, EN61000.4-2/4-3/4.4/4.5/4.6/4.11
Environment	EN300019 (transportation storage and operation) ROHS Directive on Restriction of use of certain Hazardous Substances WEE directive on Waste Electrical and Electronic Equipment
Approvals	CE, with the associated system

AVAILABLE CONFIGURATION	
Products reference	ACM1000 controller module

For further information please refer to:

www.aegps.com
solar@aegps.com

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