

# PE SYSTEMS CONTROLLERS

VIDI+

VIDI+ I/O

VIDI Controller Platform is for OPUS DC Power Systems. It provides intelligent and easy user interface and comprehensive set of features for DC Power System management.

VIDI architecture is based on PowerCAN bus communication and a modular design, which enables excellent system expandability, selectable additional features and flexibility in the design.

## RELATED PRODUCTS

MRC24-1100

MRC48-1600

MRC60-1600

MRC110-1600

MRC125-1600

MRC220-1600



- Universal controller for all 24 VDC to 220 VDC OPUS DC Power Systems.
- Modular structure for optimal performance and design flexibility.
- Sophisticated User Interface. User friendly local and remote operation.
- Comprehensive features and alarms.
- Numerous user configurable alarms and settings.
- Full remote monitoring and control with WEB interface via RS232, modem or TCP/IP.
- SNMP v3 TRAP, GET, SET.
- Large event log file with real time clock time stamps.

Providing sustainable  
**critical power solutions**  
in an ever demanding world.



**SYSTEMS**  
POWER PROTECTION SPECIALISTS

## TECHNICAL SPECIFICATIONS

# Advanced Controller Modules

ELECTRICAL		VIDI+, VIDI+ I/O	
POWER INPUT VOLTAGE RANGE	18 – 280 VDC		
COMMUNICATION PORTS		VIDI+, VIDI+ I/O	
LAN	10/100 Ethernet, RJ-45 connector		
SERIAL COMMUNICATION	RS-232, 9600-115200 kbps		
MONITORING AND CONTROL LOCAL		USER INTERFACE MODULE	
LOCAL DISPLAY	128 x 64 Graphical LCD with Back-light		
LOCAL OPERATION	Dial button, Info button and cancel button		
LOCAL LED INDICATION	3 colour system Status LED		
INFO	Dedicated button to open info text		
DEFAULT VIEW	Charge mode, system voltage, number of active alarms		
LANGUAGES	English, Russian, Finnish, Custom		
MONITORING AND CONTROL REMOTE		VIDI+, VIDI+ I/O	
REMOTE PC CONNECTION	Connect via LAN		
LOCAL PC CONNECTION	Connect directly with serial port RS-232 or LAN port		
ALARMS	E-mail or SNMP traps		
REMOTE USER INTERFACE	Web interface, 4 access levels		
REMOTE TERMINAL	Text mode interface over Telnet/SSH		
SUPPORTED PROTOCOLS	HTTP, HTTPS, Telnet, SSH, SMTP, SNMPv2, SNMPv3, NTP, DHCP, Modbus TCP/IP		
LANGUAGES	English, Russian, Finnish		
SYSTEM FEATURES		VIDI+, VIDI+ I/O	
MEASUREMENTS	System Output Voltage Measurement		
	AC input voltage, individual rectifiers		
	DC output voltage, individual rectifiers		
	DC output current, individual rectifiers		
	Temperature, individual rectifiers		
	DC output current, total rectifiers		
	Battery current		
	Load current		
FUNCTIONS	PowerCAN-Bus interface to MRC rectifiers and Smart Peripheral Modules		
	Energy Save Mode, with MRC rectifiers		
	Rectifier runtime counter		
	Alarm configuration		
	System parameters upload and download in XML format		
	Real Time Clock with Battery Backup		
	Plug-and-Play Support, Automatic Module Configuration		
	Inventory Management for Installed Modules		
	Site Information text input		
CONNECTIONS		VIDI+, VIDI+ I/O	
BATTERY OR LOAD LVD	1 pcs Contactor Coil Driver, Aux contact		
CONNECTIONS		VIDI+	VIDI+ I/O
ALARM/TEMPERATURE INPUTS	4	12	
ALARM RELAY OUTPUTS	4	12	
EARTH FAULT DETECTION	0	1	
MODULES SUPPORTED		VIDI+, VIDI+ I/O	
SUPPORTED MAX NUMBER OF MRC MODULES	42		

BATTERY MANAGEMENT FEATURES		VIDI+, VIDI+ I/O	
MEASUREMENTS	VIDI+, VIDI+ I/O		
BATTERY TESTS	Manual battery test		
	Periodic battery test		
	Natural battery tests, starts on mains fault		
CHARGE MODES	Float charge		
	Manual boost charge		
	Periodic boost charge		
	Automatic boost charge		
	Temperature compensation in all charge modes		
FUNCTIONS	Charge current limiting		
	Discharged Ah-counter		
	Time window for battery tests		

ALARMS		VIDI+, VIDI+ I/O	
CONFIGURABLE	Mains Fault		
	Phase Fault		
	Rectifier Low/Over voltage		
	System Low/Over voltage		
	Rectifier overcurrent		
	Rectifier Over Temperature		
	System Over Temperature		
	High Battery Temperature		
	Low Battery Temperature		
	Rectifier Fault		
	Module Communication Error/Module Fault		
	Load fuse fault		
	Battery LVD or Load LVD Contactor failure		
	Battery Temperature Sensor Fault		
	Rectifiers No Redundancy Alarms/Rectifiers Over Load, Configurable limits		
	Load Disconnect Warning, Configurable limits		
	Load Disconnect		
	Battery Fuse Fault		
	Battery Discharge Test Fault		
	Boost Charge Fault		
	Battery Disconnect Warning, Configurable limit		

ALARMS		VIDI+ I/O	
CONFIGURABLE	Earth fault detection		

LOG DATA		VIDI+, VIDI+ I/O	
	Alarm log: 512 last alarms, Event log: 100 last events, Battery Temperature Log Graph, System Power log, 12 Months		

CONNECTORS		VIDI+, VIDI+ I/O	
ALARM/TEMPERATURE INPUT	Screw terminals		
INTERNAL POWERCAN-BUS CONNECTOR	User interface Module RJ11 & RJ45 PowerCAN		

APPLICABLE STANDARDS			
EMC	Emissions: EN/IEC 61000-6-4		
	Immunity: EN/IEC61000-6-2		
	Harmonic currents: EN / IEC 61000-3-2		
	Voltage fluctuations & flicker: EN / IEC 61000-3-3		
	*MEASURED AS A PART OF OPUS C-SERIES RACK SYSTEM		
SAFETY	IEC / EN 60950-1		
	*TESTED AS A PART OF OPUS C-SERIES RACK SYSTEM		



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