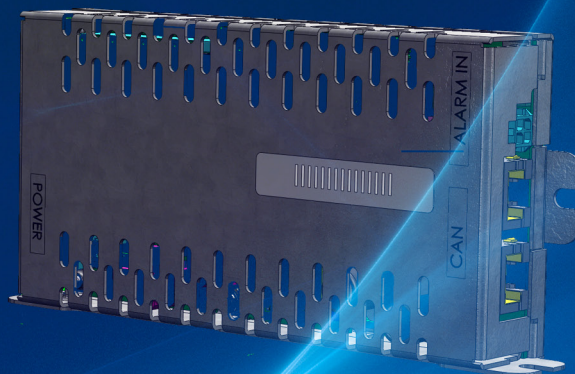


VIDI BM

Battery Monitor for OPUS Power Systems



Product description

VIDI-BM is a supervision module for batteries and it further expands comprehensive control and monitoring features of the OPUS DC Power Systems.

VIDI-BM provides detailed information regarding battery back-up condition and it is designed to measure block voltages and battery current. Two configurable alarm inputs of the module can be utilized e.g. for the battery temperature measurement and fuse alarm. All the information and alarms can be monitored by means of the WEB browser.

VIDI-BM is universal solution for all OPUS DC Power Systems from 24 VDC up to 220 VDC. Four adjacent battery blocks can be measured with one module and up to 16 modules can be daisy-chained to measure full string of batteries.

VIDI-BM is easy-to-install device connected to PowerCAN bus and the adjacent or remote back-up battery bank.

Features

- 4 block voltage measurements
- System voltage measurement
- Battery current measurement
- 2 configurable alarm inputs
- Operation voltage range 19-280VDC
- Digital communication over CAN-bus with VIDI controller

Technical specifications

General	
Operating voltage range	19–280VDC
Power consumption	<2W

Block Voltage Measurement	
Inputs 4*12 V (nominal)	
Measurement accuracy: < 20mV	
Polarity protected	

System Voltage Measurement	
Range	0-280 VDC

Current sense	
60mV shunt	
Accuracy : <1%	

Alarm Inputs	
2 universal inputs	
Both inputs can be configured as temperature sensor or as digital input. Configuration is under control of VIDI system software.	
Digital input	Relay NO or NC
Temperature sensor	NTC

Visual Status Indication	
Green/red LED	

Connectors	
PowerCAN interface	2*RJ45
Shunt current connection	2*2 pin right angle MinFit
System voltage and battery block voltages	2*4 pin right angle MiniFit
Alarm inputs	2*2 pin right angle MicroFit

Mechanical Data	
Dimensions (H*W*D)	75*160*27 mm
Protection class	IP20
Weight	320 g
Installation method	Wall mounted

Environment and standards	
Operating temperature	-20°C – +50°C
Storage temperature	-40°C - +70°C
Humidity max.	95% relative humidity, non-condensed
Altitude max.	2000 m above sea level
Safety	IEC/EN 60950-1 *Tested as a part of Opus C-series system
EMC	Emissions: EN/ IEC 61000-6-4 Immunity: EN/ IEC 61000-6-2 Harmonic currents: EN/ IEC 61000-3-2 Voltage fluctuations& flicker: EN/ IEC 61000-3-3 *Measured as a part of Opus C-series system
Environment	Operation: ETS 300 019-2-3 Storage: ETS 300 019-2-1 Transportation: ETS 300019-2-2
RoHS & WEEE	2002/95/EC, 2002/96/EC
Quality	ISO 9001, ISO 14001
Approvals	CE

Ordering Informations	
VIDI BM Kit: order code 9040X0002338	