

KEY FEATURES

- Easy-to-install in sites with similar configurations: easily configurable file upload/download
- Powerful monitoring functions: Support 4 serial ports on board, able to connect SM modules and various third-party intelligent equipment by developing protocol adaption and configuration files
- High quality failure information: Due to intelligent alarm setup through PLC use
- Quick failure analysis: storage of the most recent 400 alarms
- Convenient data analysis: Up to 600 real time data points and 10 groups of battery test log can be saved in local storage

Introduction

The EnergyMaster® DPU is a standalone data processing unit. It provides remote monitoring for control of energy equipment and environmental control of telecom site with its powerful functionality, facilitating easy maintenance and management of a site.

The DPU not only provides common analog/digital inputs and outputs, but also provides AC/ Diesel monitoring via SM AC, battery monitoring via SM BAT and a large number of generic I/O via SM IO. Moreover, the DPU can communicate with Emerson or 3rd party intelligent equipment via its serial port, which will improve its monitoring capabilities for intelligent equipment.

If maintenance and site visits, related to the telecom site, are based upon this information they can be optimized to save both time and money, especially if the site is located remotely.

The information and alarms, from a specific site, can be monitored or checked by means of a simple web browser or special monitoring software. When using a web browser no additional software is needed and the login to monitor the site is password protected.

The DPU is a supervision and control unit designed for global use, achieving high telecom standards, and providing great flexibility and expandability.



Energy Master DPU

Technical Specifications, Energy Master® DPU

GENERAL

Power Supply	19 VDC to 60 VDC
Power Consumption	20 W
Operating Temperature Range	-10°C to +50°C / 14°F to 122°F
Relative Humidity	5 to 95%
EMC	EN55022: class A, FCC part 15: class A
Safety	GB4943, UL60950, EN60950
Approvals	CE and UL

MECHANICAL DATA

Dimensions (H x W x D)	440 x 295 x 44 (mm) / 16.9 x 11.3 x 1.7 (inches), tolerance: ±1 mm
Standard Installation Methods	Mounted on wall or in 19" cabinet
Weight	< 5 kg / 11 lbs

COMMUNICATION INTERFACES AND INPUTS/OUTPUTS

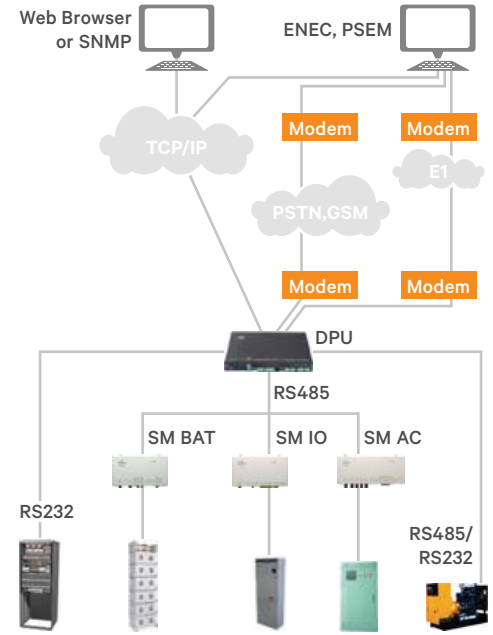
External Communication	RS232 modem, RS232 console, TCP/IP, SNMP, Web server
4 Configurable COM Ports	COM1: RS422 / RS485 / RS232 COM2: RS422 / RS485 COM3: RS485 / RS232 COM4: RS232
Inputs (on-board)	
1 Digital Input	Smoke sensor
1 Digital Input	Infrared sensor
1 Digital Input	Water detector
1 Digital Input	Burglar sensor
10 Analog Inputs	32 mA / 60 VDC
1 ² C Protocol Input	1 ² C temperature/humidity sensor
Outputs (on-board)	
4 Relay Outputs	1 A / 30 VDC
+12 V Output	11.8 VDC to 13.2 VDC, 0.2 A
+24 V Output	21.6 VDC to 26.4 VDC, 0.4 A
USB Output (Reserved)	200 mA

EXTENDED I/O

Up to 45 SM modules in any configuration of SM IO, SM BAT and SM AC

EXAMPLES OF ALARMS

DC power plant alarms, AC mains failure, rectifier failure, high temperature alarm, smoke alarm, water leakage alarm, and burglar alarm



Vertiv or Non Vertiv DC Power

ABBREVIATIONS

DPU	Data Processing Unit
ENEC	EnergyMaster ENEC, multiplatform, multiuser, distributed multi-language web environment for monitoring of Vertiv DC, HVAC, pumps, and UPS equipment, along with batteries and lighting
PSEM	Power Supply and Environment Monitoring system
PSTN	Public Switched Telephone Network, an ordinary telephone line
SM AC	Supervision Module for Alternating Current
SM BAT	Supervision Module for Battery Backup
SM DU	Supervision Module for additional alarms in extension cabinets
SM IO	Supervision Module for generic monitoring