



Energy Manager
Controlling and monitoring energy flows

The Energy Manager is designed to control different power sources and monitor energy demands, alarms and climate readings in telecommunication sites.

Applications & Services

Genset Efficiency

Genset Efficiency Solutions are specially designed for generator powered telecommunications sites. Reductions in fuel consumption of up to 70% can be achieved through optimized and intelligent diesel generator, battery and cooling management.

Site Monitoring

The Energy Manager monitors all site parameters. Alarms are sent directly to the service staff which increases site uptime significantly. All energy related data can be accessed remotely and utilized to generate customized reports which enables effective cost controlling.

Clean Power Site Clean Power Solutions from regenerative energy sources and fuel cell or gensets enable effective reduction of energy consumption and costs.

Energy Audit

In order to deliver the best possible solution we perform an Energy Audit. On the basis of this data an energy solution is generated that supports the needs of the operators.

Specifications:

Physical Dimensions	
Energy Manager	Height 3 HU, Width 19" 133 x 483 x 230 mm (H x W x D)
Installation Depth	300 mm
Electrical	
Supply Voltage	-36 to -72 VDC / 12 to 36 VDC / 100 to 240 VAC

Power Consumption	< 40 W
Operational Temperature	0 to 50°C
Relative Humidity	10 to 90% (non condensing)
Storage Conditions	-20 to +85°C, 0 to 95% relative humidity
Standards	
EMC (CE)	EN 61000-6-1 & 6-3
Protection Grade	EN 60529 (IP20)
Connection Ports	
Alarm Outputs / Dry Contacts	16 Relay change-over contacts, max. 2A / 230V 2 Watchdog contacts
Analog Input	20 configurable 0-20 mA / 0-5, 0-10, 0-30 VDC 4 configurable -100-0 VDC / 0-5, 0-10, 0-30 VDC 4 configurable Pt 1000 / 0-5, 0-10, 0-30 VDC 4 configurable Pt 100 / Pt 1000
Digital Input	16 electrically isolated low level: 0-2V, high level: 4-35V
Analog output	8 ports 0-10 VDC
Communication Interfaces / Remote Monitoring	
Wireless	GPRS Quad band CS1-CS4, CSD 9.6k SMS
Ethernet	RJ 45 10/100 BaseT
Serial	RS 232, RS 485 (optional)
USB	2.0



Energy Manager
Controlling and monitoring energy flows

Onsite Monitoring & Control	
Control Panel	5 way keypad & 4-line LCD-display configuration and monitoring
Ethernet Interface	Advanced configuration, monitoring
LED	Status / Error indication Under- and overvoltage Status of relays / alarm contacts
Customizable Data Logging	Lifetime sensor log (10 years), Events, Errors
Energy Manager Modules	
Genset Management Module	Genset efficiency Genset monitoring
Diesel Fuel Management Module	Fuel consumption Fuel level & delivery supervision Fuel theft & contamination
Battery Management Module	Battery monitoring Battery lifetime extension features
Aircon Management Module	Smart scheduling State of health monitoring Efficient cooling solutions
Remote Access Module	Remote monitoring and control Predefined and customized reports
Site Security Module	Site access control Intruder alarms