enSite Monitoring & Control
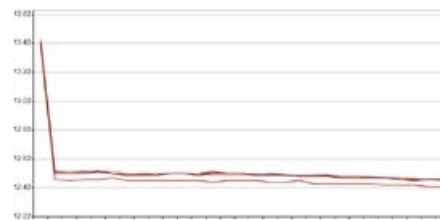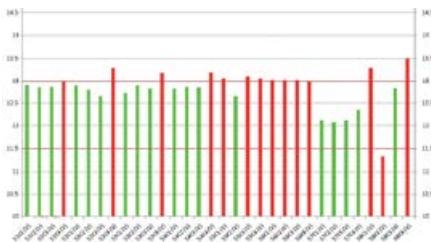
Battery Monitor Status

Stop Scanning	String 1	String 2
	2.33V	2.31V
	2.32V	2.35V
	2.32V	2.34V
	2.33V	2.30V
	2.31V	2.22V

Enatel provides **enSite** with advanced remote monitoring and control of network site equipment. The ideal solution for auxiliary site monitoring and metering of AC inputs, battery parameters and distribution loads.

Visual notification of alarm conditions are given by LED's and a 4 line x 16 character alpha numeric display, with remote notification being enabled by relay contacts, USB, RS232 or TCP/IP (using SNMP). It has a built in web based configurator allowing setup of system parameters using a web browser. Login has multiple levels of password protection. Remote reboot and software boot loading prevents the unnecessary and unpredictably of costly truck rolls.

Easy-to-install, with an easy access pull-out drawer, **enSite** ensures that all maintenance visits related to any remote site battery backup requirements, can be effectively optimized and coordinated thereby saving considerable OPEX.

It measures cell/bloc voltages, currents and temperatures with capability to extensively log battery parameters during discharge and periodic time basis. An expansive input/output configurability and Boolean (programmable) logic creates PLC-like capabilities so can be tailored for specific site requirements. Intelligent monitoring and control makes it ideal for HVAC and remote DC distributions.

A USB port allows for local monitoring of system operations, as well as easy download/upload of configuration files for multiple site installations.

Enatel's **enSite** is the perfect solution to cost effectively add site intelligence thereby ensuring the valuable management, control and visibility of all your passive site infrastructure.

- Periodic and event logging of up to 16384 records each.

- Multiple language options.

- Setup from front panel or PC.

- Fast charge control and timer.

- LCD display of parameters.

- Web based configuration.

- TCP/IP interface and SNMP for remote monitoring.

- USB port for local connection.

Technical Specifications

ELECTRICAL

Input Voltage:	16-75V DC
Input Current:	<150mA*

Base unit only, no optional modules.

MONITORING & CONTROL

Display:		Large multi-lingual alpha numeric backlit display
Communications:	Serial: TCP/IP: Modbus: GSM/GSRM:	1x USB port on front panel for local PC interface Ethernet interface for communication using SNMP protocol and internal web based configurator* Supported via TCP/IP* Mobile notification and status reports via SMS (optional)
LED Indicators:	Green: Yellow: Red:	Power on/monitor OK Non urgent alarm Urgent alarm
Audible:		90dBA buzzer mappable to user defined conditions
Controls:		3x push buttons for parameter setting or viewing on front panel
Signal Inputs:		Serial bus for rectifier control and interface to peripheral modules 6x digital inputs, 2x temperature sensors (one fitted by default)
Alarms:		6x alarm relays, 5x of which can be mapped for customised alarm settings
Alarm Contacts:		0.3A 100V volts free changeover contacts
Logging Capacity:		Periodic log, 16,384 records (dependant on number of parameters logged) Event log, 16,384 records (dependant on number of parameters logged)
Connections:		Relay outputs, mini combicon to accept 1.5mm² wire USB port, USB mini B Serial communications to rectifier shelf & peripheral devices

TCP/IP and modbus options only available with SM36 supervisory module.

ENVIRONMENTAL REQUIREMENTS

Ambient Temperature:	-25°C to +55°C
Storage Temperature:	-50°C to +85°C
Humidity:	5-95% RH (non-condensing)
Altitude:	<2,500m at full power

COMPLIANCES

Safety:	EN60950
Radiated Emissions:	EN55022
RF Susceptibility:	EN55024
Other:	CE & RoHS compliant

MECHANICAL

Dimensions W, H, D:	482.6mm (19" mount), 88.1mm (2U), 365.0mm
Weight:	6.0kg
Shipping Dimensions W, H, D:	540.0mm, 154.0mm, 435.0mm
Shipping Weight:	7.0kg

PART NUMBERS

SM362U-xxx:	Enhanced 2U 19" mount monitor with TCP/IP

Final part number will be dependant on configuration options required.

CONFIGURATION OPTIONS
To be advised at time of order

ASM-SM3xIO Expansion Card:		
	Features:	8x alarm and control relays per card, able to be mapped for customized alarm settings 6x digital inputs, 6x analogue inputs per card (4x cards max)
ASM-ABM-24 Battery Monitor:		
	Features: Options:	High accuracy battery cell voltage metering, battery symmetry or imbalance alarms, temperature and current metering with alarms 1 string of 24x 2V blocks, 4 strings of 4x 12V blocks, 8 strings of 2x 24V blocks (midpoint), (24V/60V options also available)
ASM-AC3P AC Mains Monitor:		
	Features:	Input voltage, current and frequency metering with alarms, single or 3 phase operation
ASM-FCMx Fan Controller:		
	Features: Options:	Temperature control of enclosure fans, configurable min/max fan speeds, fan stall detection 300mA standard unit, 600mA high current unit
ASM-FM24 Load Breaker/Fuse Monitor:		
	Features:	Monitoring of up to 24 load circuit protection devices, visual indication of failed unit, connects to GPIP of monitor for extension of alarm