Smartpack R

Retrofit controller – Future fit power

Bjarne Stavne, 21.01.2019, Security level: Internal use

Smartpack R

Key features

- A smarter retrofit controller
  - One PN will replace all present 242100.1XX Smartpack1 family PNs
- Backwards compatibility
  - Form-fit-function compatible in system with existing design from 2005
  - Plug-and-play replacement in field
- Same D-SUB/connector based I/O as Smartpack WEB/SNMP (“.118 module”)
- USB Host (in front) for Wi-Fi dongles, 4G modems, Gigabit Ethernet adapter and flash memory stick

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Smartpack R

Key features

- Ethernet (TCP/IP) port (rear)
- 2x Serial Ports (single RJ-11 rear)
  - 1xRS-232 & 1xRS-485
  - For communication w/3rd party equipment as known from Smartpack S, Smartpack2 Touch and SP2 Basic Industrial
  - Smartmeters, Li-Ion batteries, etc.
- USB Device - Craft Port (front)
  - USB-CDC

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Smartpack R - 3rd party integration

CAN

RS-485
MODBUS-RTU (ELTEK: MASTER)

TCP/IP w/
SNMP v3, RADIUS, HTTPS/WEB, EMAIL, MODBUS-TCP, MSM

Batteries

Energy meter

Generator control

End User monitoring network and equipment

«FIXED LINE»

Generic TCP/IP

3G/4G

or/and

Eltek MultiSite Monitor

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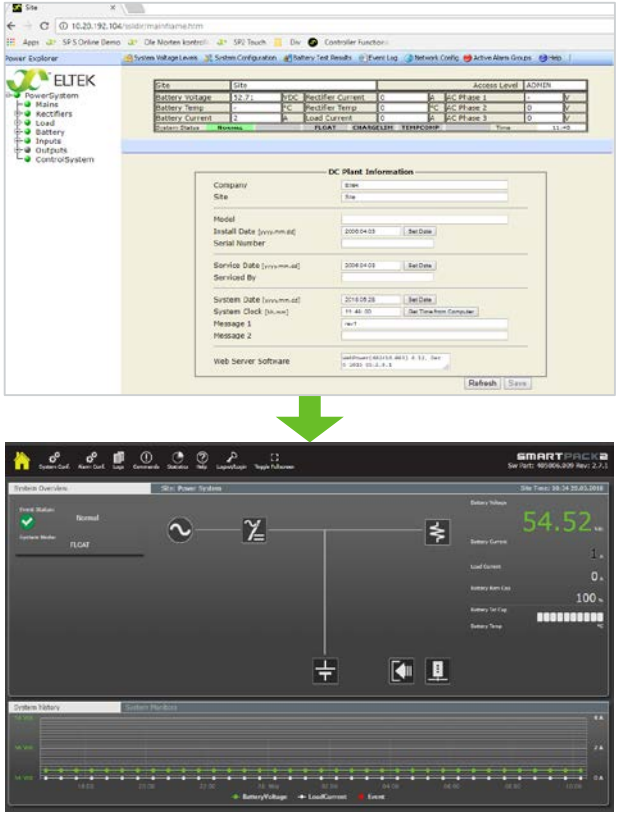
Smartpack R

Key features

- Increased network capacity (Ethernet)
  - All new TCP/IP capabilities (incl. IPv6) and highest security level
  - Responsive web interface-HTML5, SNMPv3 - Eltek Branch 10, MODBUS TCP Slave, RADIUS, etc.
  - Full compatibility with MultiSite Monitor
- Display
  - Support latin alphabet display and Chineese/Korean language versions (the old .114 and .115) in one and same version. One part number for all.



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Access from any online device – the system will automatically adjust the screen size of the device you are using

Smartpack R

Network Interfaces

Port Type	Name	Plug	Connection	Usage/Note
Ethernet	eth0	rear	100BASE-T	Fixed network, Default IP: 192.168.10.20
USB Host	wlan0	front	WiFi	Access Point, Fixed IP 10.20.0.1 (No routing functionality)
USB Host	wwan0	front	4G Mobile	USB Dongle
USB Host	eth2	front	1000BASE-T	USB Dongle
USB Device	eth1	front	USB-CDC	Craft Port, Fixed IP: 10.10.0.1
USB Host	bnep0	front	Bluetooth	USB Dongle

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Easy installation

Replace your old Smartpack in 5 simple steps

The Smartpack R is design to be quick and easy to install and configure, making it simple for you to upgrade and extend the lifetime of your old power systems.

1

First copy the old configuration file to your laptop

2

Then slide your old smartpack controller out of your power system.

3

Unplug it. Power modules will run in stand-alone mode temporary at default voltage.

4

Then plug in the new Smartpack R, and slide it into your system.

5

Now simply copy the old configuration data back to the controller, and you're good to go.

Smartpack1 vs. Smartpack R

Comparison table

	Smartpack1	Smartpack R
Online capabilities	Ethernet (not available on .110 PN) • Only on .113 & .118 PNs • Old limited non-responsive WEB Interface («WebPower») • IPv4 • SNMP v2c (MIB Branch 9 – limited data content) • Limited security • MSM (limited)	Ethernet (available as default) • Comprehensive HTML5 full responsive WEB Interface «SP2/SP S/CP-style» (tablets/smartphones) • IPv4 & IPv6 • SNMP v3 (MIB Branch 10 – large data content) • MODBUS TCP • RADIUS (single sign-on) • Highest security • MSM (full)
System capabilities & Modules support	• Rectifiers • DC/DC (limited) • Solar (partly)	• Rectifiers • DC/DC (full) • Solar (full) • Rectiverter • IMBUS (DPR rectifier modules)

Telecom site monitoring	Serial Ports/USB
	• USB B-type
	• Special pn, limited protocols
	• Special protocols in SMARTNODE (limited)
	
	CAN Nodes
	• Battery Monitor, Load/Current Monitor and all I/O Monitors
		Serial Ports/USB
		• USB B-type (backwards compatibility)
		• USB A-type «Host» for dongles, WiFi, modems, etc.
		• RJ-11 w/RS-232 & RS-485 built in
		  • Special protocols
		  • MODBUS RTU Slave for SCADA
		  • MODBUS RTU Master w/Li-Ion Battery, CE+T, & Generic 3rd party communication
		CAN Nodes
		• All, including Fleximonitor and future

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