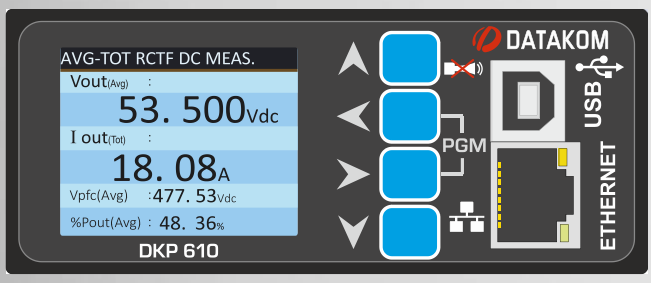
DKP-610
RECTIFIER CONTROL MODULE



FEATURES

- *128x160 pixel colour graphic display*
- *Easy programming with simple menu system*
- *All parameters front panel programmable*
- *Support for various battery charging algorithms*
- *Temperature compensated battery charging*
- *100 Megabit ethernet port*
- *Optional internal 4G GSM modem*
- *Embedded website, easy access with browser*
- *SNMP V1-V2-V3 support for centralized monitoring*
- *Compatible with Rainbow Scada monitoring system*
- *Rainbow Scada enabled mobile phone app*
- *USB port for PC connection*
- *Free PC programming software: Rainbow Plus*
- *CANBUS port for rectifier communications*
- *Optional spare CANBUS port*
- *Optional isolated RS-485 port*
- *3 load shedding contactor outputs*
- *6 alarm relay outputs*
- *3 battery shunt inputs, 3 battery voltage inputs*
- *4 temperature measurement inputs*
- *3 mains voltage measurement inputs*
- *Mains contactor control relay output*
- *Small dimensions: 100x41x158mm (WxHxD)*
- *Wide operating temperature range*

DESCRIPTION

DKP-610 is a state-of-the-art module allowing monitoring and control of up to 128 rectifiers.

The module communicates with the rectifiers through its CANBUS port in order to read live data and send commands.

The module communicates with central monitoring systems through its ethernet port. An optional 4G internal GSM modem is also provided.

The module either connects to the Datakom Rainbow Scada remote monitoring system with built-in protocol or to custom monitoring systems through SNMP protocol.

The module offers an embedded web server that can be accessed through its ethernet port. Any web browser can be used to access live data and program parameter setting.

On its front panel, the module offers a USB 2.0 port allowing connection to a computer. Using the free Rainbow Plus program, all rectifiers can be monitored live and program parameter setting can be performed. Parameter setting can be either performed manually or downloaded from a pre-programmed file for the ease of operation. Parameters can also be uploaded to the computer for future use.

The module has a smart algorithm allowing the operation of rectifiers at their best efficiency range. In order to increase the system efficiency, the module is capable of shutting-off some of the rectifiers.

The module offers smart battery charging algorithms. The charge current is programmable and the algorithm may be selected from various pre-programmed types. Temperature compensated charging is also provided.

The module is able to perform periodic or remote-controlled battery testing. The system load is used as the test load. When the battery reaches the required charge level then the test is terminated.

The default screen languages are English and the local language. The English language is fixed but the local language can be downloaded to the unit in order to adapt it to various countries.

The module supports up to 3 battery groups and measures their currents independently.

The module offers 3 independent load shedding contactor control outputs. The turn-off and turn-on voltages of these contactors are programmable.

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TECHNICAL SPECIFICATIONS

GENERAL	
Model Code	DKP-610
Supply Voltage	19-60 VDC
Power Consumption	5W max.
Operating Temperature Range	-40…+70 °C (-40…+158 °F)
Storage temperature range	-40…+85 °C (-40…+185 ° F)
Relative Humidity	95% max. (non-condensing)
EU DIRECTIVES	
Low Voltage Directive	2014/35/EC
Electromagnetic Compatibility	2014/30/EC
STANDARDS	
Safety	EN61010
Electromagnetic Compatibility	EN61326 (inclusive standard)
MECHANICAL INFORMATION	
Dimensions (WxHxD)	100x41x158mm
Mounting	Slides into opening, 96 pin Eurocard connector
Weight	570gr (approximative)
INPUTS AND OUTPUTS	
Display	Colour TFT LCD 128x160 pixels
Communication Ports	Ethernet 100 Megabit, USB 2.0, CANBUS, 4G-GSM Modem (optional), RS-485(optional), CANBUS_2 (optional)
Protocols	IP, SNMP-V1/V2/V3, Modbus, Canbus, RainbowScada
Analog Inputs	1 x busbar voltage input 3 x battery voltage inputs 3 x battery current inputs 4 x temperature inputs
Digital Inputs	8 inputs with programmable functions
Outputs	3 x load shedding contactor outputs 6 x free contact alarm outputs 6 x optional free contact outputs
Mains Voltage Inputs	3 x phase inputs, 0-350VAC (phase-to-neutral)
Mains Contactor Output	16A/250VAC free contact relay output

- All data subject to change without prior notice.

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