

DPY351





Preliminary

Manages all device ADELsystem.

Main functions:

- Monitoring
- Configuration
- · Alarms management
- History
- Event programming

Gateway for:

- Ethernet
- CAN Bus
- MODBUS

Protocols: SNMP, MODBUS TCP, MODBUS RTU, SAE J1939

Inputs: Two I/0
Output: One isolated

3.5" high-brightness LCD display with 160°

viewing angle

Anti-reflection coating for improved visibility

in direct sunlight

Simple and intuitive user interface Low power: 130 mA/ 1.6W typ.

IP65

General

The DPY351 is a robust and versatile multifunction display that allows monitoring, configuring and managing the Adel System devices connected in an ADELBus network. It is equipped with a high-brightness and wide viewing-angle 3.5" TFT screen which guarantees an optimum visibility in any operating condition. The user interface is clear, intuitive and allows configuring and managing the connected devices in a quick and straightforward way. Moreover, using the on-board Ethernet interface it is possible to remotely manage the ADELBus network through the Internet with a PC or a mobile device. At the same time, the DPY351 can act as a gateway that implements standard protocols such as Modbus TCP and SNMP.

Multimedia

The DPY351 allows managing an ADELBus network through its Ethernet interface by remotely monitoring and managing the connected devices using the SNMP and Modbus TCP protocols. The configuration of the Ethernet connection is very straightforward and can be done by means of the embedded webserver or the intuitive user interface. The device IP addressing can be static or dynamic using the DHCP protocol. This makes the connection of a DPY351 to a LAN very easy.

It is possible to connect several devices in chain together.

Feature

Through the ADELBus network (Adel System network) it manages all the connected devices:

Monitoring

It is possible the monitoring of the input and output data, peak current, peak voltage, all the battery parameters such as temperature, State of Charge, etc...

Configuration

With the DPY351, it is possible to modify the parameters of any device connected: DC Ups, Power Supply and Battery Charger.

Alarms management

All the alarms present on the single device are immediately reported.

History

The history parameters are recorded inside each device. The DPY351 allows inspecting all the historical parameters of each single device.

Event programming

Actions that are coordinated among the devices connected can be programmed, thus automating the system.



All specifications are subject to change without notice



Technical Data

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DC Input Voltage range (Vdc)	9-36
Power from Aux3	Yes
Current consumption ON typ.	0.13A (12VDC, Ethernet off)
(backlight 30%, MODBUS* on, relay off)	0.17A (12VDC, Ethernet on)
	0.08A (24VDC, Ethernet off)
	0.1A (24VDC, Ethernet on)
Current Consumption OFF	0mA
Maximum current consumption with backlight	0.32A (9VDC, MODBUS*,
100%	Ethernet and relay on)
	0.10A (36VDC, MODBUS*,
	Ethernet and relay on)
Maximum current consumption with backlight 0%	0.22A (9VDC, MODBUS*,
	Ethernet and relay on)
	0.07A (36VDC, MODBUS*,
	Ethernet and relay on)
Current Consumption in Sleep mode	< 2.5mA
External Fuse (recommended)	1A slow-blow
Display Screen	
Туре	TFT LCD display, 16bit color
	(64k colors)
Resolution	320 x 240 pixels
Brightness	800 cd/m ²
Orientation	Landscape
Backlight (life time)	LED, white (>20000h)
Data Connection	
Aux1: Input temperature sensor	ADELSystem RJ Temp
	temperature probe
Aux2: Ethernet	10/100M. VLAN is
	supported.
Protocols:	SNMP, DHCP, MODBUS TCP,
	HTTP webserver
Aux3: CAN Bus	SAE J1939
Aux3: RS485	MODBUS RTU
Data lines termination	Yes
	120 ohm for RS485,
	120 ohm for CAN bus
	individually activated with
	user-accessible dipswitches
Data lines polarization	Yes
Data mies polarization	RS485 lines only to supply
	rails, individually activated
	with user-accessible
	dipswitches
Aux4: USB: 2.0 device, full speed	1 x USB B connector
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Ambient Conditions

-25 up to +70 °C		
(>50°derating 2.5% °C)		
-40 up to +85 °C		
95 % to 25 °C		
<15 Hz,amplitude ±		
2.5mm<15Hz-150Hz, 2.3G 90		
min.		
30g in all directions		

General Data

Protection Class (EN/IEC 60529)	IP20; Front panel only IP65		
Reliability: MTBF IEC 61709	> 200.000 h		
Connection Terminal Blocks Screw Type	0.08-1.31 mm² (24 – 16 AWG)		
Protection class	II		
Housing material	Polycarbonate		
Foot latch material	Plastic POM		
Dimension (w-h-d) mm	112 x 115 x 52		
Weight	0.35 kg approx.		
Hole	90 mm		
Availlable Languages	English		
Accessory			
Connection Kit	ххххххх		
Communication Kit	Xxxx		
Temperature Sensor	Ххххх		
Hardware Port			
Input ports			
Input Number	2+1		
Input Type	2x 0-36V, 1x external shunt		
	50/60mV user-configurable		
Output port	·		
Output	1		
Output Type	Free Switch Contact (NO)		
Max. current can be switched (EN60947.4.1):			
Max. DC1: 30 Vdc 1 A; AC1: 60 Vac 1A	Resistive load		
Min.1mA at 5 Vdc	Min. load		

Norms and certifications

The CE mark in conformity to EMC 2004/108/EC and Low voltage directive 2006/95/EC.

EMC Immunity

EN61000-6-2

EMC Emission:

EN61000-6-3

Electrical Safety

Electrical Equipment for Machinery EN 60204

According to Electrical safety (of information technology equipment) IEC/EN 60950 (VDE 0805) e EN 50178 (VDE 0160) for assembling device.
Electronic equipment for use in electrical power installations EN 50178/VDE 0160

Electronic equipment for use in electrical power installations EN 50178/VDE 0160 (PELV), SELV IEC 60950 (SELV) and EN 60204 (PELV) Safe isolation DIN VDE 0100-410, DIN VDE 0106-1010

Protection against electric shock DIN 57100-410 Protection against electric shock, basic requirements for safe isolation in electrical equipment DIN VDE 0106-101 Limitation of mains harmonic currents EN 61000-3-2 Safety transformers for power supply units IEC 61558-2-17 The unit must be installed according to IEC/EN 60950.Input / Output separation: SELV EN60950-1 6 Edition, and PELV EN 60204-1. Double or reinforced insulation.



 $[\]mbox{*}$ MODBUS lines fully loaded with 32 unit loads and terminated at both ends with 120-ohm resistors.