

DPY351





General

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 ADELBus network through its Ethernet interface by remotely monitoring 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, up to 50.

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.

Manages all device ADELsystem.

Main functions:

- Monitoring
- Configuration
- Alarms management
- History
- Logging
- Event
- Gateway for:
 - Ethernet
 - IIoT (Cloud)
 - CAN Bus
 - MODBUS
 - USB
 - Webserver

Protocols: SNMP, MODBUS TCP, MODBUS RTU, SAE J1939, MQTT (Cloud)

Inputs:N°2 Digital Input; N°1 Temperature

Output: N°1 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

History

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

Logging

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

Web server

It is possible configure and drive the device by Own Server **Event**

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Technical Data

Input Data

9-72
Aux3
Aux5: Pin 1 - 2
3 to 10 A max
0.13A (12VDC, Ethernet off) 0.17A (12VDC, Ethernet on) 0.08A (24VDC, Ethernet off) 0.1A (24VDC, Ethernet on)
0mA; Aux6 Switch4 pos. OFF
< 1 mA;Aux6 Switch4 pos. ON
0.32A (9VDC, MODBUS*, Ethernet and relay on)



All specifications are subject to change without notice

	0.10A (72VDC, MODBUS*, Ethernet and relay on)
Maximum current consumption	0.22A (9VDC, MODBUS*,
with backlight 0%	Ethernet and relay on)
	0.07A (36VDC, MÓDBÚS*,
	Ethernet and relay on)
Display Screen	TET LOD display 40hit
Туре	TFT LCD display, 16bit color (64k colors)
Resolution	320 x 240 pixels 3.5 Inch
Brightness	800 cd/m ²
Orientation	Landscape
Backlight (life time)	LED, white (>20000h)
Controls	
Keyboard	4 tactile buttons, backlight
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 Communications	SAE J1939
Aux3: RS485 : MODBUS lines	MODBUS RTU
fully loaded with 32 unit loads.	(RS 485) terminated at both ends with 120-ohm
	resistors.
Aux4: USB 2.0 device, full	1 x USB B connector
speed Aux5:	Nº 2 Digital Innut
Auxo:	N° 2 Digital Input N° 1 Analog Input
	N° 1 Output
Aux6:Data lines termination	120 ohm for RS485,
(individually activated to dipswitches)	120 ohm for CAN bus
Aodbus Communication RS4	85
Aux3:	RJ45
Supported Protocols	MODBUS RTU
Supported Baud Rate	2400, 4800, 9600, 19 200,
(Factory setting: 38400)	38400
Internal Terminating Resistor	Configurable by Switch
(120 Ω)	Aux6 (Section: Hardware
(Factory Setting OFF)	configurations RS485)
CAN Communication	
Aux3:	RJ45
Supported Protocols	J1939 Raw CAN
	Can Open
Supported Baud Rate	50 Kbit/s, 100 Kbit/s, 125
(Factory setting: xxxxx)	Kbit/s, 250 Kbit/s, 500
(Kbit/s, 800 Kbit/s, 1 Mbit/s,
Internal Terminating Resistor	Configurable by Switch
(120 Ω)	Aux6 (Section: Hardware
(Factory Setting OFF)	configurations Can)
Ambient Conditions	25 up to - 70 °C
Ambient Temperature	-25 up to +70 °C
operation Ambient Temperature Storage	-40 up to +85 °C
Humidity at 25 °C, no	95 % to 25 °C
condensation	/
Vibration (operation)	<15 Hz, amplitude ±
IEC60068-2-6	2.5mm<15Hz-150Hz, 2.3G
	90 min.
Shock IEC 60068-2-6	30g in all directions
General Data	
Protection Class (EN/IEC	Front panel only IP65;
60529)	Rear IP22
Reliability: MTBF IEC 61709	> 700.000 h (Automatically Switch Off Beck Light
·	after 30 sec)
Aux5 Connection Terminal	
	Wire diameter Ø: 0.05 mm
Blocks Push Button Type	Wire diameter Ø: 0.05 mm (30AWG) - 1.5 mm
Blocks Push Button Type	Wire diameter Ø: 0.05 mm (30AWG) - 1.5 mm (14AWG)
Blocks Push Button Type Protection class	Wire diameter Ø: 0.05 mm (30AWG) - 1.5 mm (14AWG) II
Blocks Push Button Type	Wire diameter Ø: 0.05 mm (30AWG) - 1.5 mm (14AWG)

M/sisht	0.25 kg approx
Weight Hole	0.35 kg approx. 90 mm
Available Languages	English
Automatic Power ON	Deep Switch 4 ON (Aux6)
	Deep Switch 4 Old (Auxo)
Accessory Connector Cable RJ45/RJ45	RJCONN45
	RJCONN45
1m for CBI Size 4	DBYCONNEGO
Connector Cable RJ45/RJ45	DPYCONN500
1m for CBI (Device Size 3) RJTEMP111 or 113	Temp. Environment
RJTEMPTTTOTTIS	Sensor
Shunt 50 (for Device Size 3)	Measure the Load current
Hardware Port	
Digital Input ports "Aux5"	
	N° 2
Input:	Pins 3,4
Application Pins Minimum Voltage for Low	0-72 V, user-configurable
	0-72 V, user-configurable
Level: Minimum Voltage for High	0-72 V, user-configurable
	0-72 V, user-configurable
Level:	
Analog Input ports "Aux5"	N° 1
Input:	
Application Pin	Pins 5,6
For Shunt connection	50 A
Output port "Aux5"	NIG 4
Output	N° 1
Application Pin	Pins 7,8
Output Type	Dry Contact (NO)
Max. current can be switched (I	EN60947.4.1):
Max. DC1: 30 Vdc 1 A; AC1: 60) Vac 1A (Resistive
Load)	
Min.1mA at 5 Vdc (Min. Load)	
Software Port	
Remote Monitoring "Etherne	at Connection"
Remote Monitoring Etherne	
IP (Static)	192.168.1.100
IP (Static)	192.168.1.100
IP (Static) User	192.168.1.100 admin
IP (Static) User PW Web Server	192.168.1.100 admin admin
IP (Static) User PW Web Server User friendly operation trough r	192.168.1.100 admin admin
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