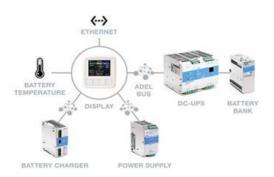
# **DPY351**





# 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

# 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 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.

## 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**

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



# **Technical Data**

**Input Data** 

iliput vata	
DC Input Voltage range (Vdc)	9-72
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 (Out6 Switch4 pos. OFF)	0mA
Maximum current consumption with backlight	0.32A (9VDC, MODBUS*,
100%	Ethernet and relay on)
	0.10A (72VDC, MODBUS*,
Manifestory and a second secon	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	< 1 mA
External Fuse (recommended)	1A slow-blow
	IA SIOW-DIOW
Display Screen	TET   OD      40  !!
Туре	TFT LCD display, 16bit
	color (64k colors)
Resolution	320 x 240 pixels 3.5 Inch
Brightness	800 cd/m <sup>2</sup>
Orientation	Landscape LED, white (>20000h)
Backlight (life time)	LED, write (>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 Aux3: RS485 : MODBUS lines fully loaded with	SAE J1939 MODBUS RTU
32 unit loads and terminated at both ends with	MODBOS KIO
120-ohm resistors.	
Data lines termination	120 ohm for RS485,
Data lines termination	120 ohm for CAN bus
	individually activated
	with user-accessible
	dipswitches
Data lines polarization	Yes, RS485 lines only to
	supply rails, individually
	activated with user-
	accessible dipswitches
Aux4: USB: 2.0 device, full speed	1 x USB B connector
Keyboard	4 tactile buttons, backlit

# **Ambient Conditions**

Ambient Temperature operation	-25 up to +70 °C
Ambient Temperature Storage	-40 up to +85 °C
Humidity at 25 °C, no condensation	95 % to 25 °C
Vibration (operation) IEC 60068-2-6	<15 Hz,amplitude ±
	2.5mm<15Hz-150Hz, 2.3G
	90 min.
Shock IEC 60068-2-6	30g in all directions

# **General Data**

IP20; Front panel only IP65
> 200.000 h
0.08-1.31 mm <sup>2</sup> (24 – 16 AWG)
II
Polycarbonate
Plastic POM
112 x 115 x 52
0.35 kg approx.
90 mm
English
By setting Deep Switch
(Aux6)

## Accessory

Connector Cable RJ45/RJ45 1m for CBI Size	RJCONN45
4	
Connector Cable RJ45/RJ45 1m for CBI Size	DPYCONN500
3	
Temperature Sensor	RJTEMP111
Hardware Port	
Input ports	
Input Number	2
Input Type	2x 0-72 V, 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
Remote Monitoring "Ethernet Co	onnection"
IP (Static)	192.168.1.100
User	admin
PW	admin
Web Server	

#### Web Server

User friendly operation trough monitoring and configuration on one page Independent identification of individual modules, a system configuration it is not necessary Integrated access management: access can be individually determined

Integrated access management: access can be individually determined locally and centrally
Integrated data storage, each modification and each error can be recorded

# 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 (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.

