# **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

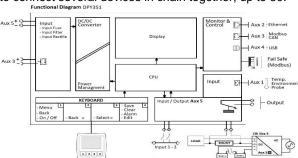
3.5" high-brightness LCD display with 160° viewing angle Anti-reflection coating for improved visibility in direct sunlight

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

**IP65** 

# General

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

| DC Input Voltage range (Vdc) | 9-72            |
|------------------------------|-----------------|
| Power from:                  | Aux3            |
| Power from:                  | Aux5: Pin 1 - 2 |
| External Recommended         | 3 to 10 A max   |
| Fuse                         |                 |



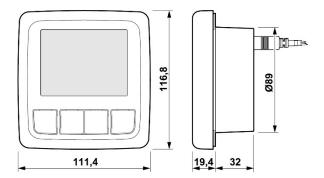
| Current consumption ON typ.      | 0.13A (12VDC, Ethernet                                |
|----------------------------------|---|
| (backlight 30%, MODBUS* on,      | off)  |
| relay off)                       | 0.17A (12VDC, Ethernet on)                            |
|                                  | 0.08A (24VDC, Ethernet                                |
|                                  | off)  |
|                                  | 0.1A (24VDC, Ethernet on)                             |
| Current Consumption              | 0mA; Aux6 Switch4 pos.                                |
| ·                                | OFF   |
| Current Consumption Sleep        | < 1 mA;Aux6 Switch4 pos.                              |
| mode                             | ON MODBUOT  |
| Maximum current consumption      | 0.32A (9VDC, MODBUS*,<br>Ethernet and relay on)       |
| with backlight 100%              | 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, MODBUS*,                                |
| N                                | Ethernet and relay on)                                |
| Display Screen                   | TET LOD discolor 40kir                                |
| Туре                             | TFT LCD display, 16bit                                |
| Resolution                       | color (64k colors)<br>320 x 240 pixels 3.5 Inch       |
| Brightness                       | 800 cd/m <sup>2</sup>                                 |
| Orientation                      | Landscape   |
| Backlight (life time)            | LED, white (>20000h)                                  |
| Controls                         |   |
| Keyboard                         | 4 tactile buttons, backlight                          |
| Data Connection                  |   |
| Aux1: Input temperature          | ADELSystem RJ Temp                                    |
| sensor                           | temperature probe                                     |
| Aux2: Ethernet                   | 10/100M. VLAN is                                      |
|                                  | supported.  |
| Protocols:                       | SNMP, DHCP, MODBUS                                    |
| AO. OAN O                        | 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:                            | N° 2 Digital Input                                    |
|                                  | N° 1 Analog Input                                     |
| Aux6:Data lines termination      | N° 1 Output<br>120 ohm for RS485,                     |
| (individually activated to       | 120 ohm for CAN bus                                   |
| dipswitches)                     | 120 01111 101 07111 040                               |
| Modbus 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   |
| Cupposted David Data             | Can Open  |
| Supported Baud Rate              | 50 Kbit/s, 100 Kbit/s, 125<br>Kbit/s, 250 Kbit/s, 500 |
| (Factory setting: xxxxxx)        | 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               |   |
| 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;<br>Rear IP22   |
| 60529) Reliability: MTBF IEC 61709   | > 700.000 h (Automatically  |
| Reliability. WITEFIEC 01709  | Switch Off Beck Light after 30 sec)   |
| Aux5 Connection Terminal   | Wire diameter Ø: 0.05 mm  |
| Blocks Push Button Type  | (30AWG) - 1.5 mm  |
|  | (14AWG)   |
| Protection class   |   |
| Housing material   | Polycarbonate   |
| Dimension (w-h-d) mm   | 112 x 117 x 52  |
| Weight<br>Hole   | 0.35 kg approx.<br>90 mm  |
| Available Languages  | English   |
| Automatic Power ON   | Deep Switch 4 ON (Aux6)   |
| Accessory  |   |
| Connector Cable RJ45/RJ45  | RJCONN45  |
| 1m for CBI Size 4  | -   |
| Connector Cable RJ45/RJ45  | DPYCONN500  |
| 1m for CBI (Device Size 3)   |   |
| RJTEMP111 or 113   | Temp. Environment   |
| Object 50 (for B 1 2)  | Sensor  |
| Shunt 50 (for Device Size 3)   | Measure the Load current  |
| Hardware Port  |   |
| Digital Input ports "Aux5"   | Nº O  |
| Input:   | N° 2  |
| Application Pins   | Pins 3,4<br>0-72 V, user-configurable   |
| Minimum Voltage for Low  | 0-72 v, user-configurable   |
| Level: Minimum Voltage for High  | 0-72 V, user-configurable   |
| Level:   | 5 12 v, user-configurable   |
| Analog Input ports "Aux5"  |   |
| Input:   | N° 1  |
| Application Pin  | Pins 5,6  |
| For Shunt connection   | 50 A  |
| i Oi Oiluit Colliection  | JU A  |
| Output port "Aux5"   | JV A  |
| Output port "Aux5"   | N° 1  |
| Output Port "Aux5" Output Application Pin  | N° 1<br>Pins 7,8  |
| Output port "Aux5" Output Application Pin Output Type  | N° 1<br>Pins 7,8<br>Dry Contact (NO)  |
| Output port "Aux5" Output Application Pin Output Type Max. current can be switched (E  | N° 1<br>Pins 7,8<br>Dry Contact (NO)<br>EN60947.4.1):   |
| Output port "Aux5" Output Application Pin Output Type  | N° 1<br>Pins 7,8<br>Dry Contact (NO)<br>EN60947.4.1):   |
| Output port "Aux5" Output Application Pin Output Type Max. current can be switched (E Max. DC1: 30 Vdc 1 A; AC1: 60 Load)  | N° 1<br>Pins 7,8<br>Dry Contact (NO)<br>EN60947.4.1):   |
| Output port "Aux5" Output Application Pin Output Type Max. current can be switched (E Max. DC1: 30 Vdc 1 A; AC1: 60 Load) Min.1mA at 5 Vdc (Min. Load)   | N° 1<br>Pins 7,8<br>Dry Contact (NO)<br>EN60947.4.1):   |
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Degrees of protection provided by enclosures IEC/EN 60529: IP65: Environmental Testing IEC/EN 60068

# Drowings:



# Accessory

