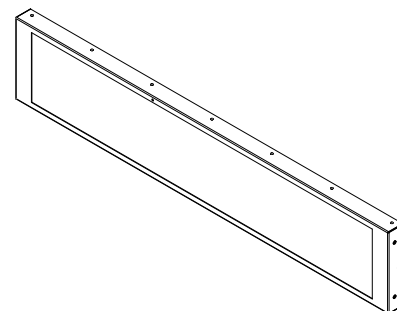


ALP2100/A

Information LED Panel for Rolling Stock

- **Display area (1072 × 184) mm, yellow LED**
- **Resolution 135 × 24 pixels**
- **RS485 communication interface**
- **Power supply 24 V DC**
- **Fulfill UIC176 requirements**
- **Designed in accordance with EN 50155**



TECHNICAL DATA

Display area	(1072 × 184) mm
Resolution	135 × 24 pixels
LED pitch	8 mm
LED colour	Yellow, 590 nm typ.
Brightness	Min. 800 cd/m ²
Observation angel	120 ° *)
Light sensor	1 ×
Function	Measuring of ambient light
RS485	1 ×
Galvanic separation, insulation strength	Yes, 500 V AC/1 minute **)
Connection	WAGO231-636/019-000 #)
Geographical addressing	Separate cable
Number of bits	4
Connection	WAGO231-635/019-000
Power supply	24 V DC -30 % to +25 %
Max. power consumption	5 A at 24 V DC
Peak input current	10 A ##)
Connection	WAGO231-636/019-000 #)
Others	
Mechanic	Sheet metal cover + polycarbonate
Colour of mechanic	Black
Mounting	4 × M5 screw from the side 4 × M8 screw from the rear
Cover protection rate	IP50
Operating temperature	-40 °C to 70 °C
Storage temperature	-40 °C to 70 °C
Max. ambient humidity	< 95 % non-condensing
Weight	9 kg
Dimensions (w × h × d)	(1182 × 225 × 61) mm
Expected MTBF	> 50 000 h

*) Decline in brightness from the line of observation angle to 50 %.

**) Galvanic separation may not be used for unsafe voltage separation.

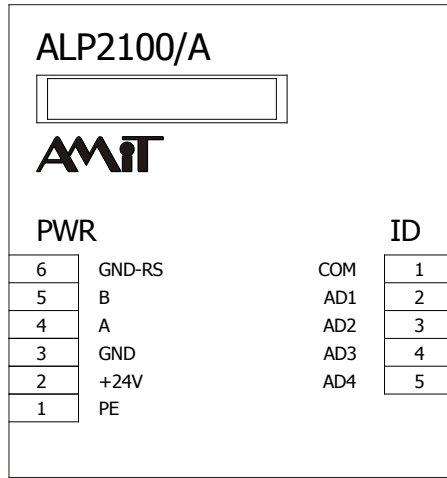
#) Power supply and RS485 communication are on common connector.

##) Duration time of peak input current is less then 10 ms.

ORDERING INFORMATION

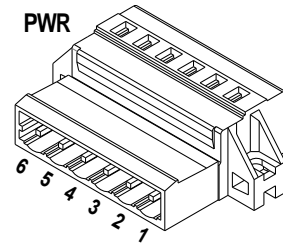
ALP2100/A	LED panel, connector counterparts for service cables (2 pcs), user's manual, warranty card, production test report, insulation test report
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RECOMMENDED DIAGRAM SYMBOL

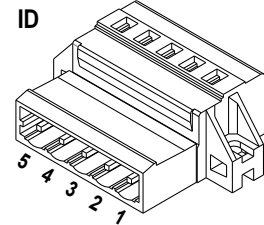


TERMINALS ASSIGNMENT

Connector	PIN	Signal	Signal description
PWR	1	PE	Unit frame
	2	+24V	Power supply, +24 V
	3	GND	Power supply, GND
	4	A	RS485, A line
	5	B	RS485, B line
	6	GND-RS	RS485, ground



Connector	PIN	Signal	Signal description
ID	1	COM	Common address pin
	2	AD1	Address pin 1
	3	AD2	Address pin 2
	4	AD3	Address pin 3
	5	AD4	Address pin 4



PANEL DIMENSIONS AND CONNECTORS LOCATION

PWR and ID connectors are located on the backside of panel.

