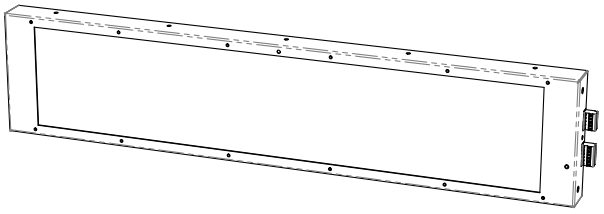
Industrial
Control Systems

ALP5A2410A1

Information LED panel for rolling stock

- **Viewing area (800 × 160) mm**
- **LED colour yellow**
- **Resolution (100 × 20) pixels**
- **Brightness 800 cd/m^2**
- **RS485 communication line**
- **Power supply 24 V DC**
- **Complies UIC176**
- **Design according EN 50155:2007**



TECHNICAL DATA

Viewing area	(800 × 160) mm
Resolution	(100 × 20) pixels
LED grid	8 mm
LED color	Yellow, 590 nm typ.
Luminance	Min. 800 cd/m^2
Viewing angle	120 ° *)
Light sensor	1 ×
Function	Measuring of ambient light
RS485	1 ×
Galv. separation, dielectric strength	Yes, 500 V AC /1 minute **)
Connection point	WAGO 231-636/019-000 #)
Geographic addressing	On a separate cable
Number of panels on single RS485 segment	16
Connection point	WAGO 231-635/019-000
Power supply	16.8 V to 33.6 V DC
Nominal power supply voltage	24 V DC
Power consumption	5 A at 24 V DC
Peak inrush current	15 A ##)
Connection point	WAGO 231-636/019-000 #)
Others	
Mechanics	Metal cover + polycarbonate
Colour of mechanics	Black fine matte RAL 9005
Mounting	4 × M5 nut on the sides 4 × M8 nut on the back
Ingress protection rate	IP50
Operating temperature range	-40 °C to 70 °C
Storage temperature range	-40 °C to 70 °C
Maximum ambient humidity	< 95 %, non-condensing
Weight	6 kg ±5 %
Dimensions (w × h × d)	(902 × 193 × 47) mm
Expected MTBF	> 150 000 h

*) Luminance drop to 50 % at viewing angle border.
**) Galvanic separation must not be used for dangerous voltage separation.
#) Power supply and RS485 communication share common connector.
##) Inrush peak current duration is less than 10 ms.

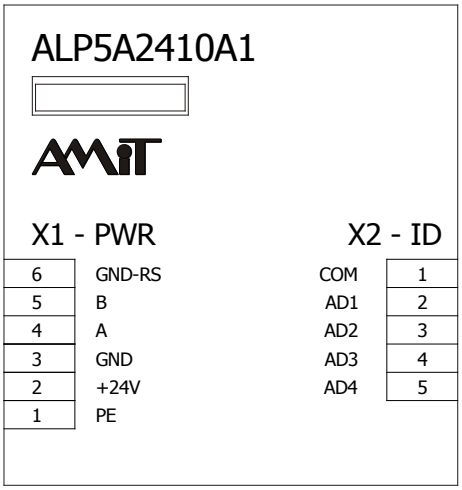
ORDERING INFORMATIONS

ALP5A2410A1	Information LED panel, WAGO connector counterparts, routine testing protocol, Insulation testing protocol, quality and completion certificate.

AMiT, spol. s r.o., Naskové 1100/3, 150 00 PRAGUE, Czech Republic
Tel.: +420 222 780 100, +420 222 781 516, Fax: +420 222 782 297
e-mail: amit@amit.cz

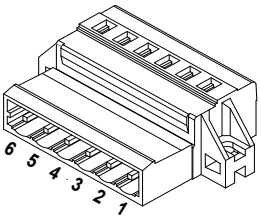
Technical support: support@amit.cz
Tel.: +420 549 210 276, +420 549 210 403
www.amit.cz/support

RECOMMENDED DRAWING SYMBOL

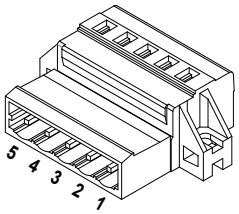


TERMINALS ASSIGNMENT

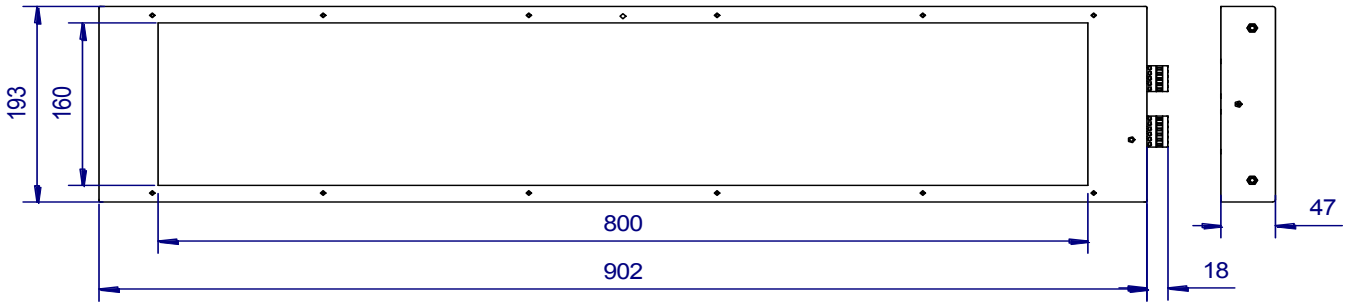
Connector	PIN	Signal	Signal description
X1 PWR	1	PE	Unit chassis
	2	Vcc	Power supply, +24 V DC
	3	GND	Power supply, Ground
	4	A	RS485, signal A
	5	B	RS485, signal B
	6	GND-RS	RS485 line, ground



Connector	PIN	Signal	Signal description
X2 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



MECHANICAL DRAWING



Data provided in this datasheet are only informative. Detailed information can be found in operational manual (**alp5a2410a1_g_en_xxx.pdf**).
Documentation and examples can be downloaded from **www.amit-transportation.cz** web site.