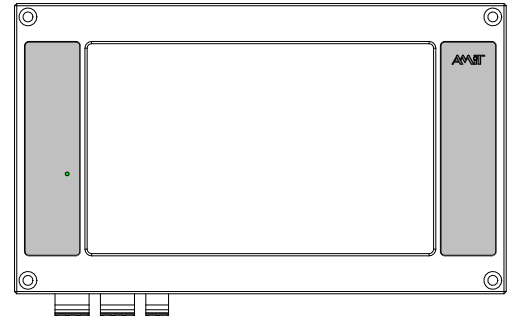


AMR-OP87 RevA

Control HMI

- TFT 7", (800 × 480) pixels
- Resistive touch panel
- 2× RS485, Ethernet 10/100 Mbps
- Integrated web server
- MicroSD card slot
- Power supply 24 V DC
- Mounting into the front panel



TECHNICAL DATA

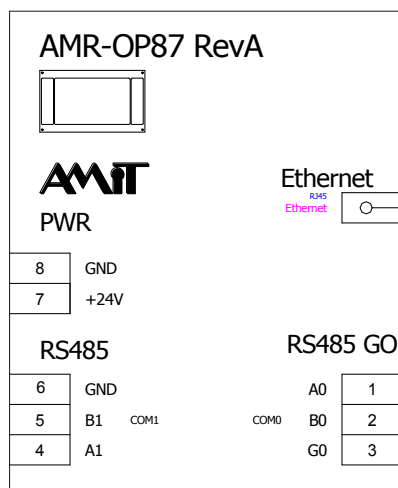
Processor	STM32F437	
Memory Flash / EEPROM	2 MB + 16 MB / 32 KB	
Backed-up RAM memory / SDRAM	4 MB / 16 MB	
RTC	CPU	
Accuracy (25 °C)	± 20 ppm	
RAM + RTC back-up	BR2477 lithium battery removable module	
Battery lifetime	5 years in normal environment	
Display	TFT, 7"	
Resolution	(800 × 480) pixels	
Visible area	(152.4 × 91.4) mm	
Backlight / lifetime	White LED / 20000 hours	
Operation	Resistive touch panel	
Communication		
Serial communication channel	2× RS485 (WAGO connectors)	
Galvanic isolation	1× Yes, 1× No	
Max. number of stations per RS485 segment	RS485 GO	256
	RS485	32
Ethernet	IEEE802.3 (RJ45 connector)	
Power supply	19.2 V DC to 28.8 V DC	
Consumption	Max. 180 mA at 24 V DC	
Other		
Ingress protection rate – front panel	IP65	
– rear panel	IP20	
Operating temperature	-20 °C to 70 °C *)	
Maximum ambient humidity	< 95 % non-condensing	
Mounting	Into the switchboard front panel	
Weight	0.82 g	
Dimensions (w × h × d)	(220 × 130 × 46) mm	
Programming	DetStudio / EsiDet	

*) At temperatures above 40 °C, the maximum backlight level is reduced; at temperatures above 70 °C, the display turns off.

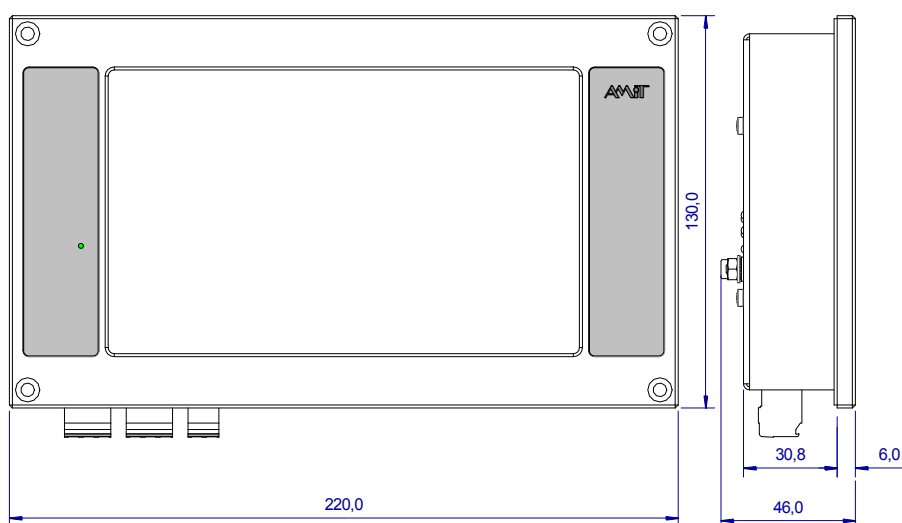
ORDERING INFORMATION

AMR-OP87 RevA	Control HMI, WAGO connectors
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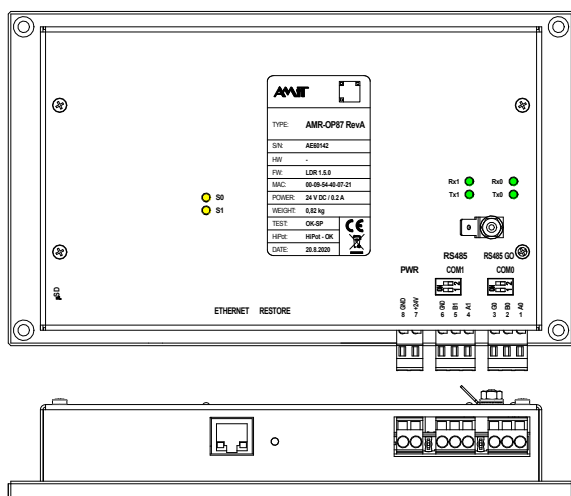
RECOMMENDED DRAWING SYMBOL



MECHANICAL DRAWING



DESCRIPTION OF TERMINALS



RS485 with galvanic isolation

Terminal	Designation	Significance
1	A0	RS485 interface with GI, signal A
2	B0	RS485 interface with GI, signal B
3	G0	RS485 interface with GI, GND

RS485 without galvanic isolation

Terminal	Designation	Significance
4	A1	RS485 interface, signal A
5	B1	RS485 interface, signal B
6	GND	RS485 interface, GND

Power supply

Terminal	Designation	Significance
7	+24V	Power supply, +24 V DC
8	GND	Power supply, GND

Data in this datasheet is informative only. Binding detailed information can be found in the operation manual ([amr-op87_reva_g_en_xxx.pdf](#)). Documentation and examples are available at amitautomation.com.

The manner of usage of the system peripheries is determined by the current options of DetStudio / EsiDet.