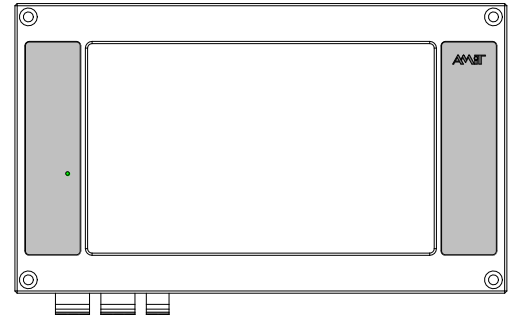


AMR-OP87/G

Control terminal / regulator

- TFT 7", 800 × 480
- Resistive touch panel
- 2 × RS485, GSM, Ethernet 10/100 Mbps
- Integrated web server
- Slot for Micro SD card
- Power supply 24 V DC
- Mounting into front panel



TECHNICAL DATA

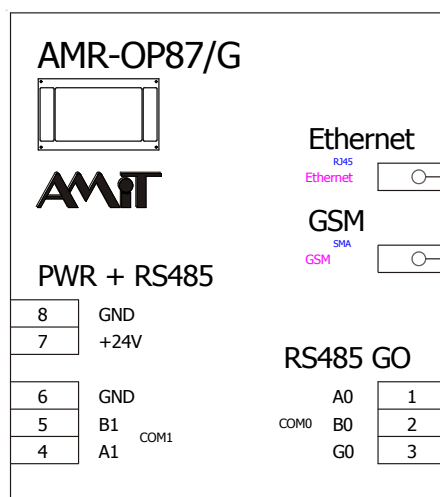
Processor	STM32F427
Memory FLASH / EEPROM	2 MB + 16 MB / 32 KB
Backed-up RAM memory	4 MB
RTC	CPU
Precision (25 °C)	±20 ppm
RAM + RTC backup	CR2477 lithium battery removable module
Battery lifetime	5 years in normal environment
Display	TFT, 7"
Resolution	(800 × 480) pixels
Visible area	(152.4 × 91.4) mm
Backlight / lifetime	White LED / 20 000 hours
Control	Resistive touch panel
Communication	
Serial communication channel	2 × RS485 (WAGO connectors)
Galvanic separation	1 × Yes, 1 × No
Number of devices on RS485 segment	RS485 GS 256 RS485 32
Ethernet	IEEE802.3 (connector RJ45)
GSM modem	Yes
Connection point	SMA
SIM card type	Mini (2FF)
Power supply	19.2 V DC to 28.8 V DC
Power consumption	Max. 200 mA at 24 V DC
Others	
Ingress protection rate – front panel – back cover	IP65 IP20
Operating temperature	-20 °C to 70 °C *)
Maximum ambient humidity	< 95 % non-condensing
Mounting	Into switchboard front panel
Weight	650 g
Dimensions (w × h × d)	(220 × 130 × 39) mm
Programming	DetStudio / EsiDet

*) When the temperature reaches 40 °C – maximum backlight level is reduced, when the temperature goes above 70 °C – the display is switched off.

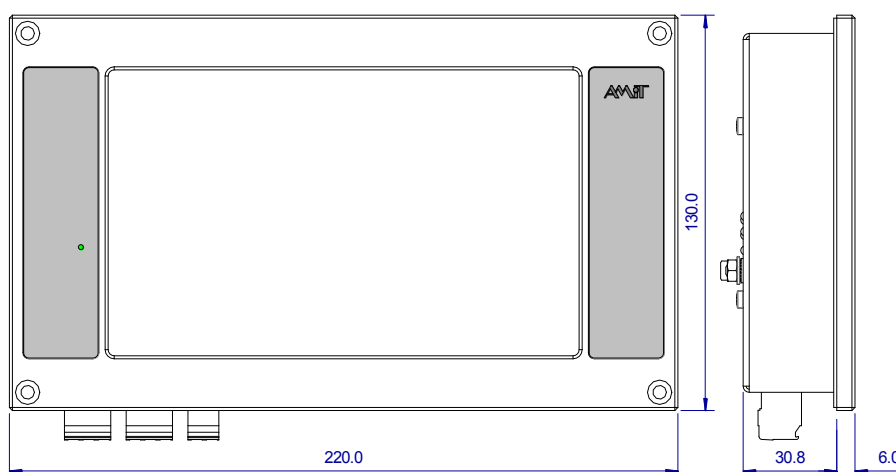
ORDERING INFORMATIONS

AMR-OP87/G	Control terminal, WAGO connectors
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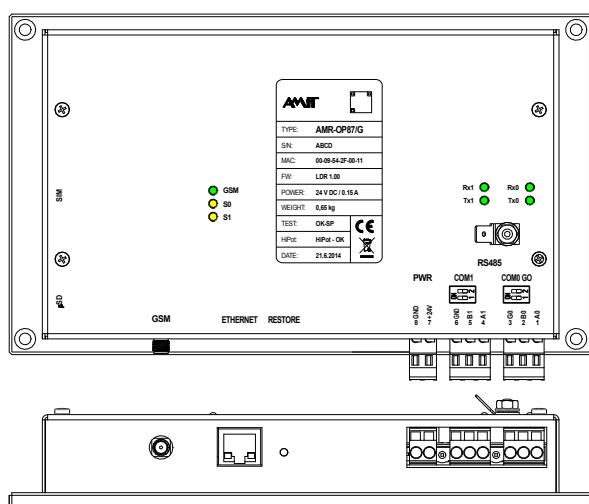
RECOMMENDED DRAWING SYMBOL



MECHANICAL DRAWING



TERMINAL'S IDENTIFICATION



RS485 with galvanic separation

Terminal	Label	Meaning
1	A0	RS485 line with GS, signal A
2	B0	RS485 line with GS, signal B
3	G0	RS485 line with GS, GND

RS485 without galvanic separation

Terminal	Label	Meaning
4	A1	RS485 line, signal A
5	B1	RS485 line, signal B
6	GND	RS485 line, GND

Power supply

Terminal	Label	Meaning
7	+24V	Power supply + 24 V DC
8	GND	Power supply, GND

Data provided in this datasheet are only informative. Detailed information can be found in operational manual ([am-op87g_g_en_xxx.pdf](#)). Documentation and examples can be downloaded from www.amit.cz web site.

Usage of system peripherals depends on current possibilities of DetStudio / EsiDet design environment.