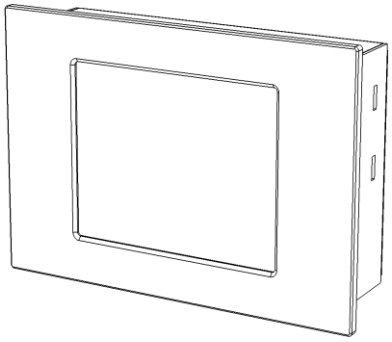
AMR-OP83

Control system with a graphic display

- **TFT 3.2″, (320 × 240) pixels**
- **Resistive touch panel**
- **RS485, Ethernet 10/100 Mbps**
- **Optional RS485 / RS232 / CAN / M-Bus**
- **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	1 MB
RTC	CPU
Accuracy (25 °C)	±20 ppm
RAM + RTC back-up	Replaceable lithium battery CR1632
Battery lifetime	5 years in normal environment
Display	TFT, 3.2″
Resolution	(320 × 240) pixels
Visible area	(64.8 × 48.6) mm
Backlight / lifetime	White LED / 20,000 hours
Control	Resistive touch panel
Communication	
Serial communication interface	RS485 without GI (connector WAGO 231)
No. of units in a RS485 segment	256
Ethernet	10/100 Mbps (RJ45 connector)
Optional interfaces on the module [1)]	RS485 with GI (EM-RS485 module) RS232 (Tx, Rx) (EM-RS232 module) CAN with GI (EM-CAN module) M-Bus (EM-MBUS5 module)
Power supply	12 V DC to 30 V DC
Maximum consumption	100 mA at 24 V DC
Other	
Ingress protection rate – front panel – rear panel	 IP65 IP20
Operating temperature range	-20 °C to 70 °C
Maximum ambient humidity	< 95 % non-condensing
Mounting	Into the switchboard front panel
Weight	0.33 kg
Dimensions (w × h × d)	(127 × 76 × 47) mm
Programming	DetStudio / EsiDet

[1)] Other modules availability depends on the current offer.

AMiT, spol. s r.o.
Radlicka 740/113c, 158 00 **PRAHA**, Czech Republic
tel.: +420 222 780 100, 222 781 516

Export Sales Department
Videnska 186/118, 619 00 **BRNO**, Czech Republic
tel.: +420 778 775 407
e-mail: automation@amit.cz

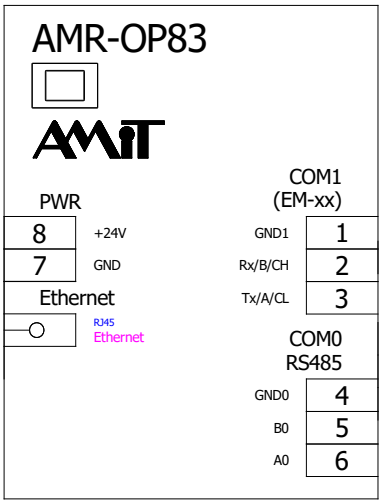
Technical support
tel.: +420 549 210 279, 549 210 403
e-mail: support@amit.cz

ID number: 45316015, VAT ID: CZ45316015, DUNS: 36 472 4476
Bank: Komerční banka, a.s., Na Prikope 33, Praha 1, 11407, IBAN: CZ55 0100 0000 4341 4734 0227, SWIFT: KOMBCZPP

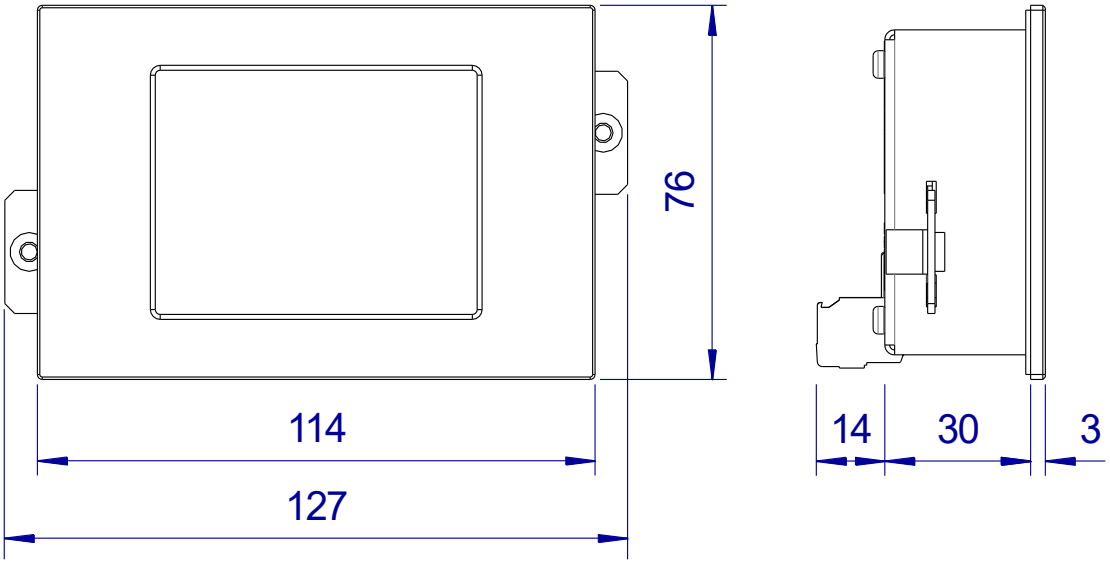
ORDERING INFORMATION

AMR-OP83	Control terminal, WAGO connectors, lithium battery, 2× mounting clamp
EM-RS485	Communication module for RS485 with galvanic isolation
EM-RS232	Communication module for RS232
EM-CAN	Communication module for CAN with galvanic isolation
EM-MBUS5	Communication module for M-Bus Master interface for up to 5 slave devices
MD OPFIX1	2× Mounting clamp with a bolt

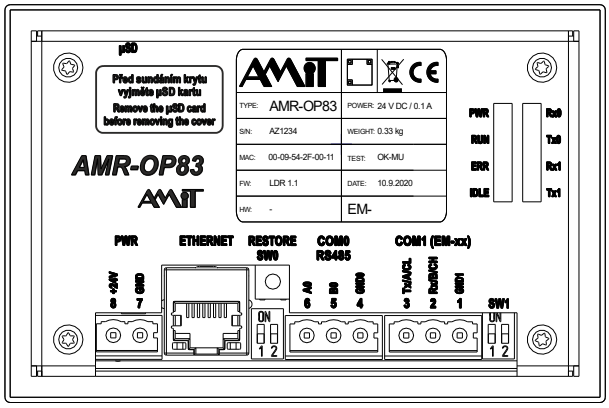
RECOMMENDED DRAWING SYMBOL



MECHANICAL DIMENSIONS



DESCRIPTION OF TERMINALS



Communication module (COM1)

Terminal	Designation	Significance
1	GND1	Communication module, ground
2	Rx/B/CH	According to the communication module
3	Tx/A/CL	According to the communication module

RS485 (COM0)

Terminal	Designation	Significance
4	GND0	RS485, ground
5	B0	RS485, signal B
6	A0	RS485, signal A

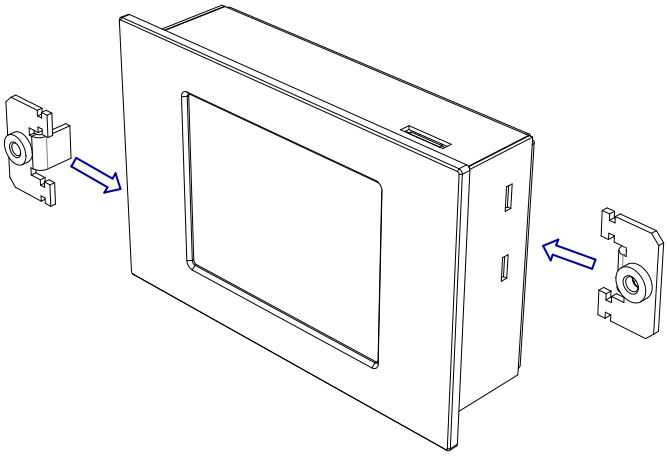
Power supply

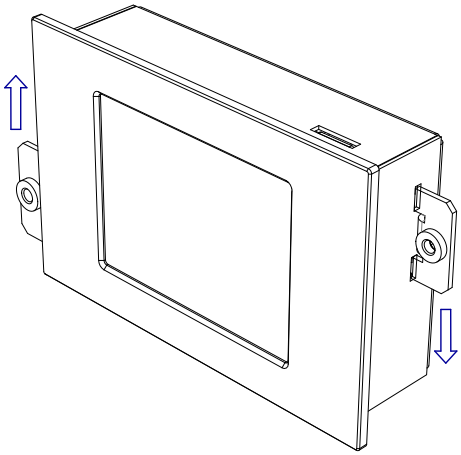
Terminal	Designation	Significance
7	GND	Power supply, ground
8	+24V	Power supply, +24 V DC

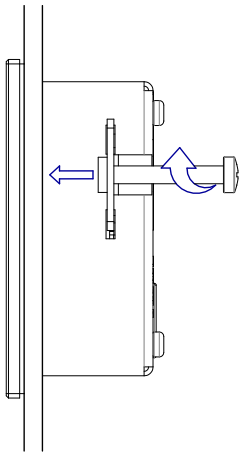
AMR-OP83

Control system with a graphic display

MOUNTING







Data in this datasheet is tentative. Binding detailed information can be found in the operation manual (**amr-op83_g_en_xxx.pdf**). Documentation and examples are available at amitomation.com.

AMiT, spol. s r.o.
Radlicka 740/113c, 158 00 **PRAHA**, Czech Republic
tel.: +420 222 780 100, 222 781 516

Export Sales Department
Videnska 186/118, 619 00 **BRNO**, Czech Republic
tel.: +420 778 775 407
e-mail: automation@amit.cz

Technical support
tel.: +420 549 210 279, 549 210 403
e-mail: support@amit.cz

ID number: 45316015, VAT ID: CZ45316015, DUNS: 36 472 4476
Bank: Komerční banka, a.s., Na Prikope 33, Praha 1, 11407, IBAN: CZ55 0100 0000 4341 4734 0227, SWIFT: KOMBCZPP