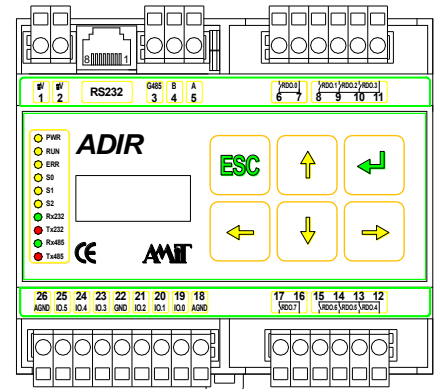


ADIR

Compact control system with display

- 8 × relay output
- 6 × universal I/O
DI contact / AI Ni1000 / DO
- RS232 – RJ45 according to EIA-561
- RS485 with galvanic separation
- DIN 35 mm rail mounting
- LCD display 2 × 8 characters, 6 buttons



TECHNICAL DATA

CPU	SAB C167CR-LM
Memory FLASH / RAM / EEPROM	512 KB / 1024 KB / 2 KB
Backed up RAM + RTC	Panasonic Lithium battery, 5 years
Universal inputs / outputs	6 ×
Digital inputs	Dry contact
Analogue inputs	Ni1000 / 0 V to 5 V ¹⁾ / 0 mA to 20 mA ¹⁾
Digital outputs	15 V DC via 3K92 resistor
I/O configuration settings	By program
Inputs protection	Diodes + 820 Ω resistor
Inputs / Outputs galvanic separation	No
Relay outputs	8 × switching contact 230 V / 2 A AC
Switched power out (resistive load)	500 VA AC / 70 W DC
Time to – switch on	5 ms
– switch off	1 ms
Contact lifetime – without load	30 × 10 ⁶ switches
– nominal load	1 × 10 ⁵ switches
Maximum switching freq. – without load	72000 hrs ⁻¹
– nominal load	360 hrs ⁻¹
Communication	
Serial communication channel	RS232 (RJ45), according to EIA-561 RS485 interface with GS (WAGO 231 connector) ²⁾
Power supply	19.2 V DC to 28.8 V DC or 14.4 V AC to 21.6 V AC
Power consumption (w/o output load)	Max. 200 mA at 24 V DC
Others	
Signal connection	WAGO cage clamps 231
Display / Keyboard	Text mode, backlit, (2 × 8) characters / 6 buttons
Ingress protection rate	IP20
Operating temperature range	0 °C to 50 °C
Maximum ambient humidity	< 95 % non-condensing
Mounting	DIN rail 35 mm
Weight	0.36 kg
Dimensions (w × h × d)	(106 × 98 × 74) mm

¹⁾ Accuracy only 5 %, external sensing resistor needs to be used for current range.

²⁾ Insulation strength 300 V AC / 1 min., galvanic separation must not be used for separation of safe and unsafe parts.

ORDERING INFORMATION

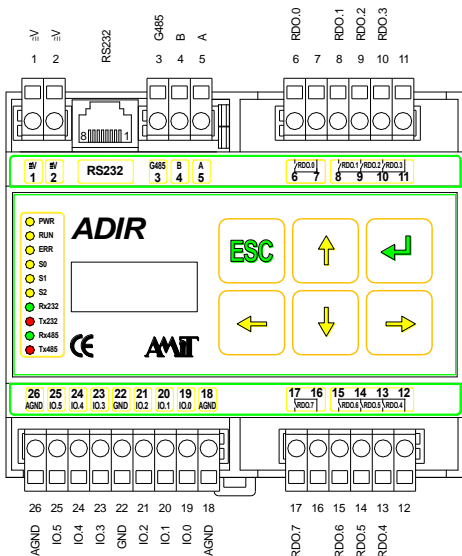
ADIR	Compact control system, complete connector set
TRF01	Power supply transformer 18 V AC / 5 VA, 35 mm DIN rail mounting

TERMINALS IDENTIFICATION

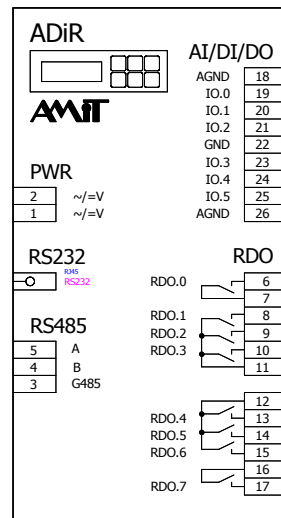
Terminal	Label	Description
1	$\cong V$	Power supply
2	$\cong V$	Power supply
3	G485	RS485 interface, shield
4	B	RS485 interface, B line
5	A	RS485 interface, A line
6	RDO.0	RDO.0 relay
7	–	RDO.0 relay
8	RDO.1	RDO.1 relay
9	RDO.2	RDO.2 relay
10	RDO.3	RDO.3 relay
11	–	RDO.1 to 3 common terminal
12	–	RDO.4 to 6 common terminal
13	RDO.4	RDO.4 relay

Terminal	Label	Description
14	RDO.5	RDO.5 relay
15	RDO.6	RDO.6 relay
16	–	RDO.7 relay
17	RDO.7	RDO.7 relay
18	AGND	Analogue ground
19	IO.0	Universal input / output 0
20	IO.1	Universal input / output 1
21	IO.2	Universal input / output 2
22	GND	Digital ground / GND Power Supply
23	IO.3	Universal input / output 3
24	IO.4	Universal input / output 4
25	IO.5	Universal input / output 5
26	AGND	Analogue ground

LOCATION OF TERMINALS

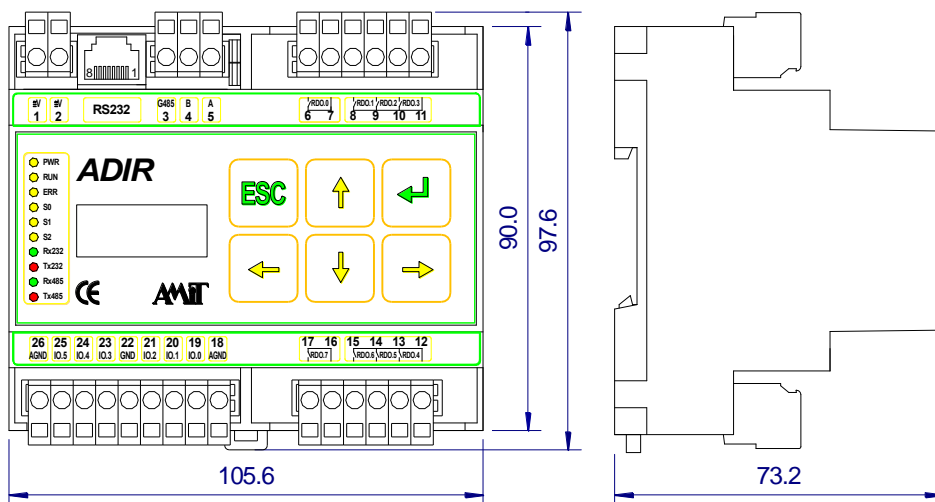


RECOMMENDED DRAWING SYMBOL



Note: GND, AGND and RS232 – GND terminals are internally connected.

MECHANICAL DIMENSIONS



Data provided in this datasheet are informative only. Detailed information can be found in operation manual ([adir_g_en_xxx.pdf](#)). Documentation and examples can be downloaded from www.amitautomation.com.