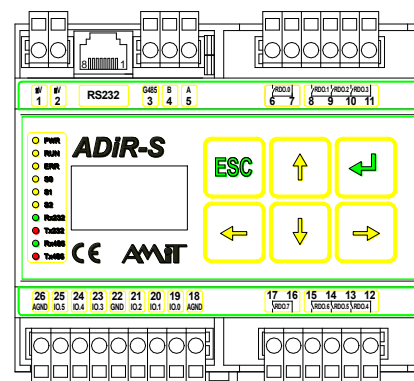


# ADIR-S

Compact control system with display

- 8× relay output
- 6× universal I/O  
RTD / AI / 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

<b>CPU</b>	ST10F269
Memory FLASH / RAM / EEPROM	256KB + 1024 KB / 1024 KB / 2 KB
Backed up RAM + RTC	Panasonic Lithium battery, 5 years
<b>Universal inputs / outputs</b>	6×
Digital inputs	Dry contact
Analogue inputs	Ni1000/Pt1000/(0 to 5) V <sup>1)</sup> / (0 to 20) mA <sup>1)</sup>
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
<b>Relay outputs</b>	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 <sup>6</sup> switches
– nominal load	1×10 <sup>5</sup> switches
Maximum switching freq. – without load	72,000 hrs <sup>-1</sup>
– nominal load	360 hrs <sup>-1</sup>
<b>Communication</b>	
Serial communication channel	RS232 (RJ45), according to EIA-561 RS485 interface with GS (WAGO 231 connector) <sup>2)</sup>
<b>Power supply</b>	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
<b>Others</b>	
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

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

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

## ORDERING INFORMATION

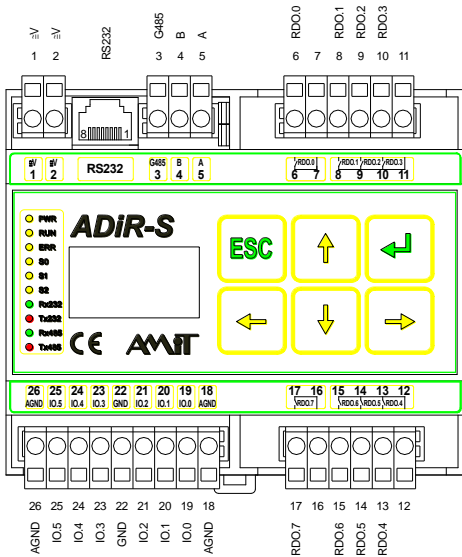
<b>ADIR-S</b>	Compact control system, complete connector set
<b>TRF01</b>	Power supply transformer 18 V AC / 5 VA, 35 mm DIN rail mounting

# TERMINALS IDENTIFICATION

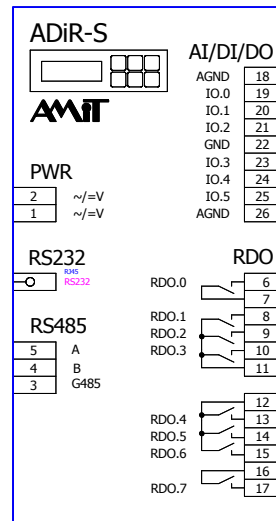
Terminal	Label	Description
1	$\cong V$	Power supply
2	$\cong V$	Power supply
3	G485	RS485, shield
4	B	RS485, signal B
5	A	RS485, signal A
6	RDO.0	RDO.0 relay
7	–	RDO.0 relay
8	RDO.1	RDO.1 relay
9	RDO.2	RDO.2 relay
10	RDO.3	RDO.3 relay
11	–	RDO.1 to 3 common terminal
12	–	RDO.4 to 6 common terminal
13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

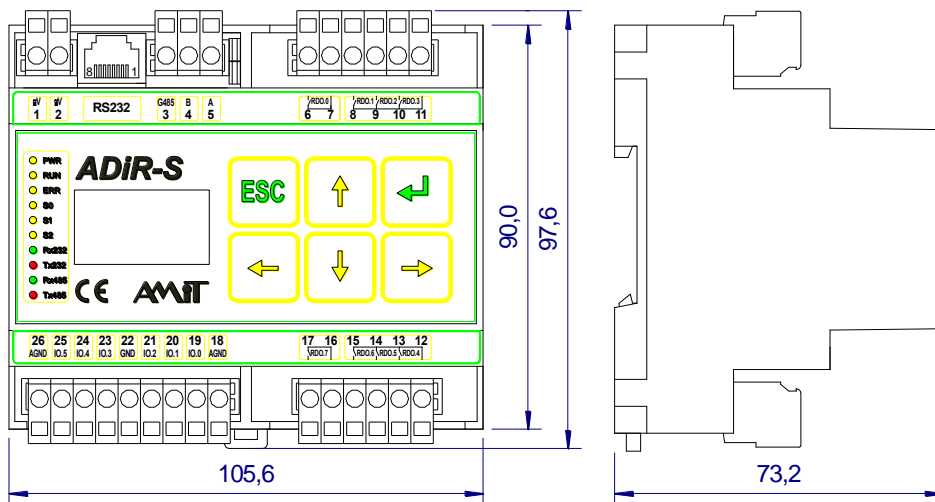


## RECOMMENDED DRAWING SYMBOL



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-s\\_g\\_en\\_xxx.pdf](#)). Documentation can be downloaded from [amitautomation.com](http://amitautomation.com).