

AC2-27

72 x 94 x 61 mm DIN rail

lae
ELECTRONIC

Two channel
universal Controller,
ON/OFF or PID



Main features

- Runs on mains power supply
- PID with autotuning or ON/OFF control
- Main output on relay or for SSR-piloting and auxiliary output on relay
- Input for 0÷1V, PTC/NTC10K, TC J/K or Pt100
- 0.1 / 1°C or 1°F resolution
- Selectable Refrigerating/Heating (Dehumidifying/Humidifying) control
- Absolute or relative temperature alarms
- ON/OFF button on front
- Connectivity for supervisory systems or IoT
- Selectable serial communication protocol ASCII or RTU

Applications

Temperature: on control panels for small cold stores, heating systems, heated cupboards, bains-marie, ovens, laboratory equipment.

Humidity: on control panels for greenhouses, seasoning cells, cold rooms, air-conditioned rooms.

How to order AC2-27

Model	Suffix	Options	Description
AC2-27			Model and dimensions main unit 27 series
Inputs	A		Input 0...1V
	J		TC "J" (Iron-Costantan) / TC "K" (Chromel-Alumel)
	P		Thermistor Pt100
	T		PTC1000 / NTC10K
Connections	S		Screw Connections (built-in screw terminals)
Outputs	1		Output 1
	2		Output 1 + 2
Type of outputs	R		Outputs on relay
	M		Output 1 on SSR drive, output 2 on relay
Power Supply	L*		7...30Vdc / 12Vac ±10%
	W		100...240 Vac
Aux. functions	-		None
	-A		Serial Communication TTL
	-B		Serial Communication RS485

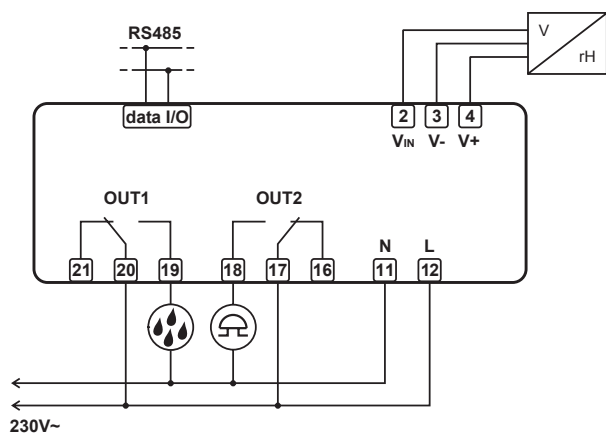
* In the AC2-27...L version, the power supply of the controller and of the loads must be of type SELV or PELV.

AC2-27 series						
TECHNICAL DATA	AC2-27T...		AC2-27P...	AC2-27J...		AC2-27A...
Input Type	PTC	NTC10K*	Pt100	TC "J"	TC "K"	0÷1V
Range	-50÷150°C -60÷300°F	-40÷125°C -40÷260°F	-100÷850°C -150÷999°F	-50÷750°C -60÷999°F	-50÷999°C -60÷999°F	Configurable in setup
Accuracy*	±0.3°C ±0.6°F	±0.3°C ±0.6°F	±0.3°C ^(a) ; ±1°C ^(b) < ±2°F	< ±3°C < ±5°F		< ±3mV
Resolution	0.1 / 1°C / 1°F			1 °C / °F		0.1 / 1
Max. loads of outputs	OUT1	3.6 FLA; 21.6 LRA 240Vac; 12A resistive				
	OUT2	3.6 FLA; 21.6 LRA 240Vac; 12A resistive				
	SSR drive for OUT1	15mA 12Vdc				
Power supply	100 ÷ 240 Vac ±10%, 50/60Hz, 3W; 7 ÷ 30Vdc / 12Vac ± 10%, 3W					
Ambient temperature & humidity	-10... +50°C; 15%... 80% r.H.					

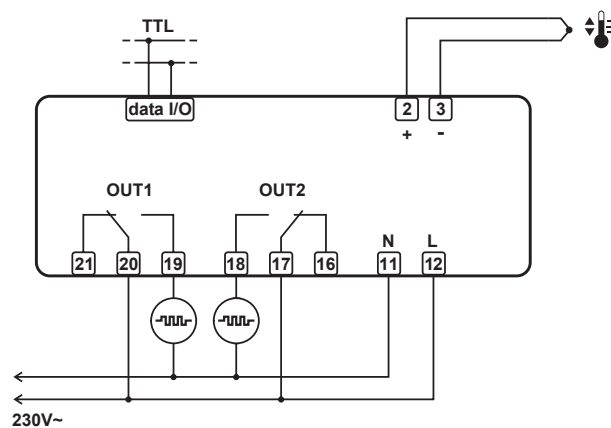
^(a) -50÷150°C; ^(b) remaining range.

*Approximate (for exact indications, please refer to the instructions for use)

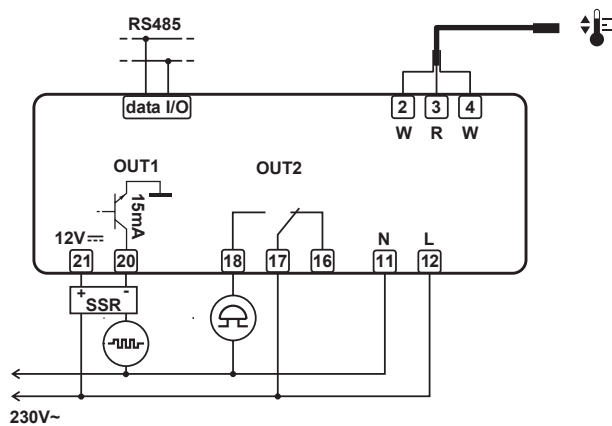
AC2-27



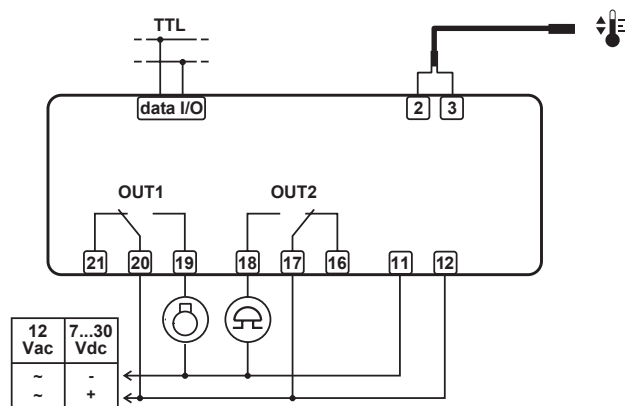
AC2-27AS2RW-B



AC2-27JS2RW-A



AC2-27PS2MW-B



AC2-27TS2RL-A