## Z31 DIGITAL THERMOSTAT



### **FEATURES**

-50 TO +150 DEG C RANGE

NTC OR PTC INPUT

UP TO 2 RELAY OUTPUTS, 1 X 16 AMP, 1 X 5 AMP

**ELECTRONIC DEFROST FUNCTION** 

**DIGITAL INPUT** 

SWITCHED MODE POWER SUPPLY, 100-240 V, 12-24 V

**PROGRAMMING KEY** 

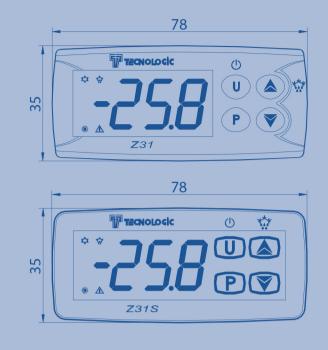
PATENTED SENSITIVE TOUCH KEYBOARD

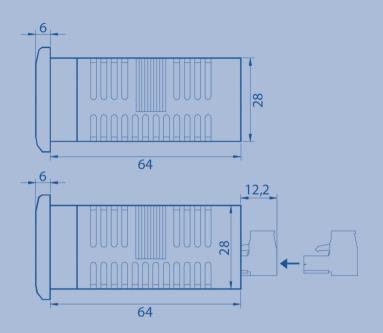
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## SPECIFICATIONS

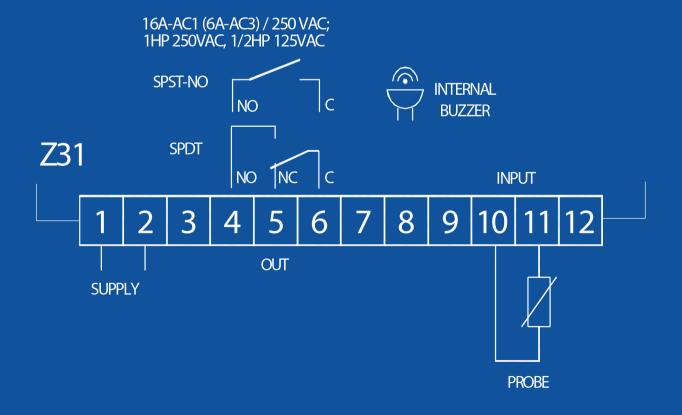
Electrical Data	
Power Supply	12 VAC/VDC, 1224 VAC/VDC, 100240 VAC +/- 10%
Frequency AC	50/60 Hz
Power Consumption	4 VA approx.
Inputs	1 input for temperature probes: PTC (KTY 81-121, 990 $\Omega$ @ 25 °C) or NTC (103AT-2, 10K $\Omega$ @ 25 °C)
Outputs	1 relay output SPST-NO (16A-AC1, 6A-AC3 250 VAC,1HP 250VAC, 1/2HP 125 VAC) or SPDT 16A-AC1, 6A-AC3 250 VAC,1HP 250VAC, 1/2HP 125 VAC); 12 A Max. for extractable terminal block model
Electrical Life for Relay Outputs	SPST-NO: 100000 op.; SPDT: 50000 op. (om. VDE)
Action Type	type 1.B (EN 60730-1)
Overvoltage Category	
Protection Class	Class II
Insulation	Reinforced insulation between the low voltage part (supply H type and relay output) and front panel; Reinforced insulation between the low voltage section (supply H type and relay output) and the extra low voltage section (inputs); Reinforced between supply and relay output; No insulation between supply F or G type and inputs.
Mechanical Data	
Housing	Self-extinguishing plastic, UL 94 V0
Heat & Fire Resistance Category	D
Dimensions	78 x 35 mm, depth 64 mm
Weight	120 g approx.
Mounting	Flush in panel (thickness max. 12 mm) in 71 x 29 mm hole
Connections	2,5 mm <sup>2</sup> screw terminals block or 2,5 mm <sup>2</sup> extractable screw terminals block
Degree of Front Panel Protection	IP 65 (NEMA 3S) mounted in panel with gasket
Pollution Situation	2
Operating Temperature	0 T 50 °C
Operating Humidity	< 95 RH% without condensation
Storage Temperature	-25 T +60 °C
Functional Features	
Temperature Control	ON/OFF mode
Defrost Control	interval cycles by stopping compressor
Measurement Range	NTC: -50109 °C / -58228 °F; PTC: -50150 °C / -58 302 °F
Display Resolution	1 ° or 0,1° (range -99.999.9 °)
Overall Accuracy	+/- (0,5 % fs + 1 digit)
Sampling Rate	130 ms.
Display	3 Digit Red (or Blue as option) h 15,5 mm
Software Class & Structure	Class A
Compliance	ECC directive 2004/108/CE (EN55022: class B; EN61000-4-2: 8KV air, 4KV
	cont.; EN61000-4-3: 10V/m; EN61000- 4-4: 2KV supply, inputs, outputs; EN61000-4-5: supply 2KV com. mode, 1 KV\ diff. mode; EN61000-4-6: 3V), 2006/95/CE (EN 60730-1. EN 60730-2-7. EN 60730-2-9)

### **MEASUREMENTS**

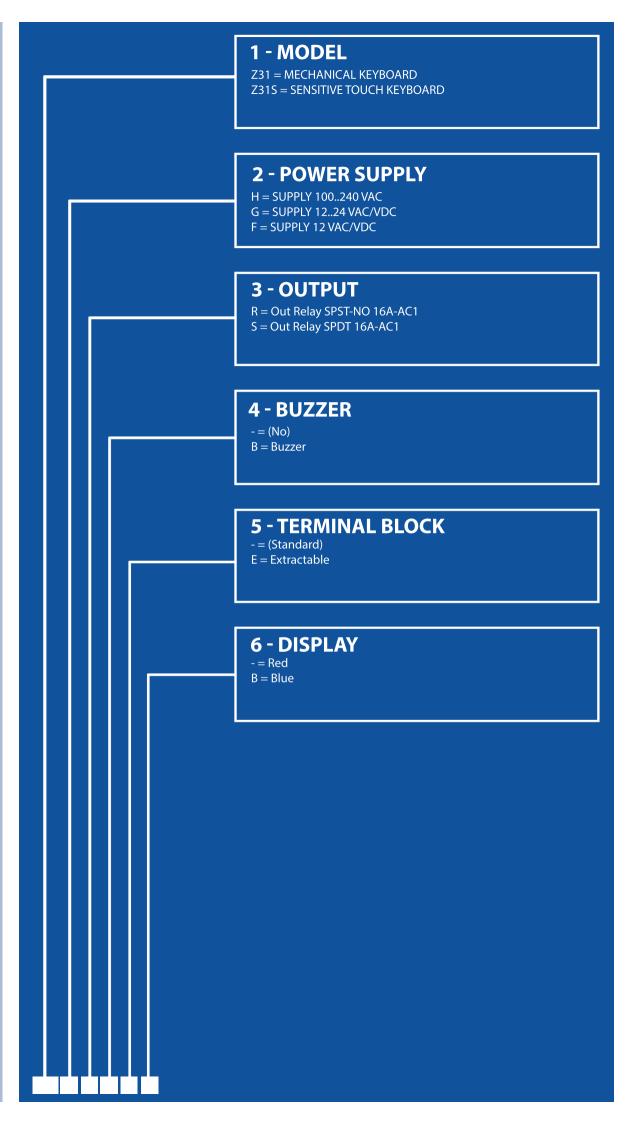




### **ELECTRICAL CONNECTIONS**



# HOW TO ORDER



USE THIS GUIDE TO FIND THE PART NUMBER OF THE PRODUCT YOU WANT