

SERIE: Z31

Digital electronic temperature controller with defrost

1 probe input, 1 relay output, buzzer and defrost
Available with extractable terminal block and
"Sensitive Touch" keyboard



- **Inputs:**

1 input for temperature probes:

- PTC KTY81-121 (990 Ω @ 25 °C)
- NTC 103AT-2 (10K Ω @ 25 °C)

Overall accuracy: ± 0.5 % fs + 1 digit

Keyboard:

- Mechanical
- Sensitive-Touch

- **Process outputs:**

1 relay output:

- OUT1 SPDT or SPST-NO
16A-AC1, 6A-AC3 250 VAC, 1 HP 250 VAC,
1/2HP 125 VAC
12 A max for each terminal with extractable
terminal block
Internal buzzer for alarm indication

- **Power supply:**

- 12 VAC/VDC $\pm 10\%$
- 12...24 VAC/VDC $\pm 10\%$
- 100...240 VAC $\pm 10\%$
- Frequency AC:50/60 Hz
- Power consumption: around 4 VA

- **Control functions**

- Stand-by mode
Control strategy :
- ON/OFF

Up to 4 configurable alarms:

- Probe error "E1", "-E1"
- Temperature thresholds: "Hi", "Lo"

Compressor protection

Start-up delay

Defrost

- **Defrost start/stop:**

Time based (continues compressor working
time)

- **Defrost methods:**

- By compressor stop

- **Communication and configuration:**

Communication on TTL port to:

- Universal programming key
- Remote display

- **Dimensions:**

78 x 35 mm, depth 64 mm + 11.5 mm with
extractable terminal block

Connections:

- 2.5 mm² screw terminals block
- 2.5 mm² extractable screw terminals block
- IP65 front frame protection, with gasket
- 1 display with 3 digits, h 15.5 mm, red or blue
colour