

Datasheet

On/Off Temperature Controller, 76 x 34.5mm, NTC Input, 230 V ac Supply

RS Stock number [798-3491](#)



Digital ON/OFF Temperature Control Device

ESM-3710-N is a temperature control device with the features of PTC or NTC or PT-100 or Fe-Const or NiCr-Ni input, single set, relay or SSR output, selectable heating and cooling function.

Display and Front Panel

Buttons SetP, direction and enter

Led Indicators Heating, cooling, celcius, fahrenheit, set, program

Display 14 mm Red 4 digits LED display

Body

Physical Features 76mm x 34,5mm x 71mm

Protection Class NEMA 4X (IP65 at front, IP20 at rear)

Weight Approximately 0.20 Kg.

Installation Fixed Installation

Electrical Features

Supply Voltage and Power 24Vdc/ac ($\pm 15\%$) 50/60Hz - 1.5VA

24 V ~ ($\pm 15\%$) 50/60 Hz 1.5 VA

115 V ~ ($\pm 15\%$) 50/60 Hz 1.5 VA

230 V ~ ($\pm 15\%$) 50/60 Hz 1.5 VA

10-30Vdc 1.5W

Sensor Inputs NTC, PTC, TC, RTD

NTC (10k @.25 °C)

PTC(1000 @.25 °C)

J, K (IEC584.1)(ITS90)

PT-100, PT-1000 (IEC751)(ITS90)

Scale Fe-CuNi 0°C...800°C

NiCr-Ni 0°C...999°C

PT 100 -50°C...400°C / -19,9°C...99.9°C

NTC -50°C...100°C / -50.0°C...100.0°C

PTC -50°C...150°C / -50.0°C...150.0°C

Accuracy $\pm 1\%$ of full scale

Outputs

Relay Output 16(8)A@250 V~ at resistive load

SSR Driver Output Maximum 20ma, Maximum 17Vdc

Control