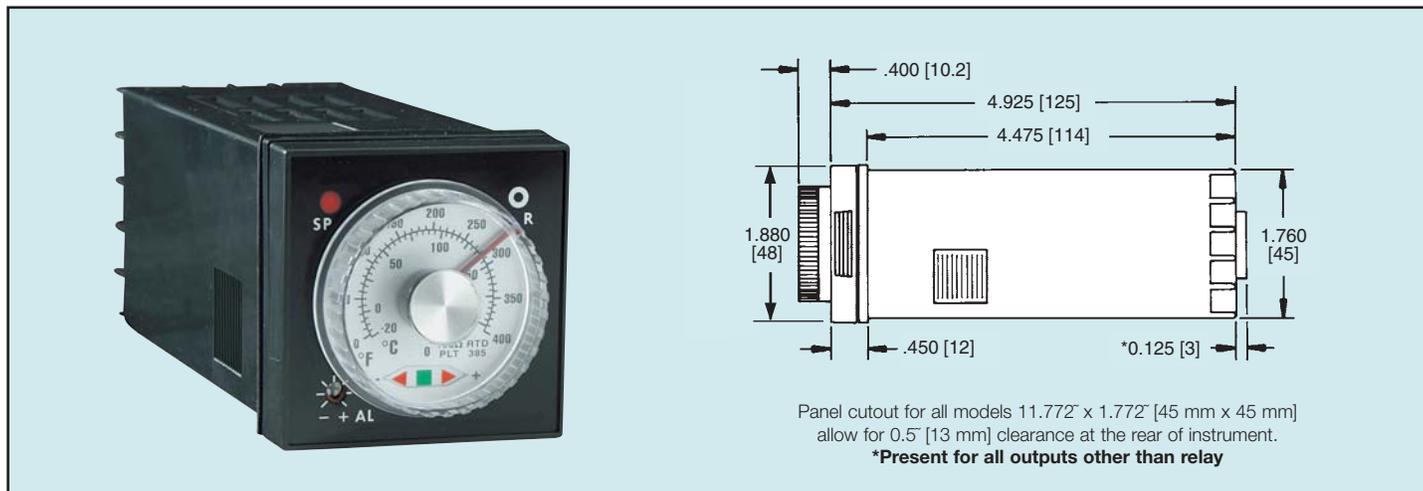




Series 1400

Analog Setpoint Temperature Controller

1/16 DIN, Compact & Low Cost



Temperature

The Love Series 1400 Temperature Controller is a reliable, accurate and ultra-low cost analog control or alarm in a compact 1/16 DIN case. LED status and deviation indication, analog setpoint indicator and dual °F/°C scale are standard features. Inputs include J and K type thermocouples or RTDs. Control outputs are available as either On/Off, Time Proportioning Relay, or 5VDC Logic reverse acting (heating). Alarm output is field configurable reverse acting (heating) or direct acting (cooling) and easily adjusted for either automatic or manual reset to provide independent high or low system protection. Electronics are easily replaceable via removable front panel (just pull out – no wiring changes). Front panel meets NEMA-2 and NEMA-12.

SPECIFICATIONS

Inputs: Type J and K thermocouple or RTD.

Accuracy: ±2% full scale.

Supply Voltage: 100 to 240 VAC, 50-400 Hz.

Operating Temperature: 14 to 130°F (-10 to 55°C); storage -13 to 149°F (-25 to 65°C).

Output Ratings: Relay (SPST): 3A res., 1.5A ind. @ 250 VAC; Pilot Duty = 250 VA, 2A @ 125 VAC or 1A @ 250 VAC. Logic (non-isolated): 5 VDC @ 25 mA max. Recorder: 0-1 VDC @ 0-1 mA.

Deviation Indicator: LEDs indicate process value deviation from setpoint of greater than 1.5% full scale.

Input Impedance: Thermocouple (3 megohms min.) RTD current (500 µA max.).

Weight: 8 oz (227 g).

MODELS

Model Number	Input	Range	Output
140AA	J Thermocouple	0-400°F (210°C)	Time Proportioning Relay
140JC	J Thermocouple	0-800°F (420°C)	Alarm Relay
140AC	J Thermocouple	0-800°F (420°C)	Time Proportioning Relay
140BC	J Thermocouple	0-800°F (420°C)	On/Off Relay
140JA	J Thermocouple	0-400°F (210°C)	Alarm Relay
140EF	K Thermocouple	0-800°F (420°C)	Time Proportioning Relay

OPTIONS

210, Setpoint Knob Lock - not available with Aux. Alarm

215, Alarm Power Interrupt (Automatic reset on power on)

2102, FM Approved Setpoint Knob-Lock. Not available with Aux. Alarm

APPLICATIONS

Plastics extrusion; injection, compounding, screening, or thermoforming machinery; package sealing equipment; industrial bonding, paint application, glass manufacturing, heat treating; laboratory ovens and environmental chambers; food preparation equipment; valves, motors, HVAC, chillers, incinerators.