

ABSTRACT

MICRO TEMPERATURE CONTROLLER

The application provides a temperature controller module for an injection-moulding machine. The temperature controller module comprises a resistor network and at least one analog controller device. The resistor network comprises a power supply terminal, a machine mode selector switch with at least two machine mode selector positions, a material type selector switch with at least two material type selector positions, and an output terminal. The output terminal is connected to the material type resistors. The analog controller device comprises a sensor terminal, a threshold detector, an optical coupling device, an AC power supply terminal, a heater terminal, and an analog semiconductor power switch. The threshold detector comprises a sample and hold input electrical circuit.

(Fig. 1)