

VC-M-1 Hot Runner Temperature Control Modules

Features:

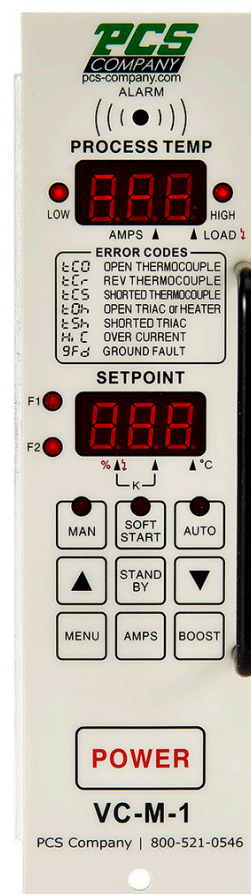
- All functions & parameters are fully selectable from the "menu" feature on the keypad
- Amperage measurement & display
- Percent of power display (selectable range)
- Automatic or manual operation
- Automatic soft start
- Anti-arcing
- Boost (selectable temperature & time)
- Standby
- "F" or "C" temperature ranges
- Type "J" or "K" thermocouple
- Selectable control method – Adaptive-auto-tuning PID or Fuzzy Logic
- Panel lock out (selectable on/off)
- Electrically Isolated Front Panel
- APO (average power output) for T/C failure conditions
- Automatic test of LED segments
- Operating voltage 240V, 50/60 Hz or 120V
- Cold junction compensation
- Zero crossing triac
- This module operates in "G" series, 15amp main frames

Diagnostic Features:

- Ground fault detection (selectable range)
- High amperage alarm (selectable range)
- Thermocouple - open, shorted & reversed alarm
- Triac - shorted & open alarm
- Heater open alarm
- High and low temperature alarm
- Blown fuse indicators

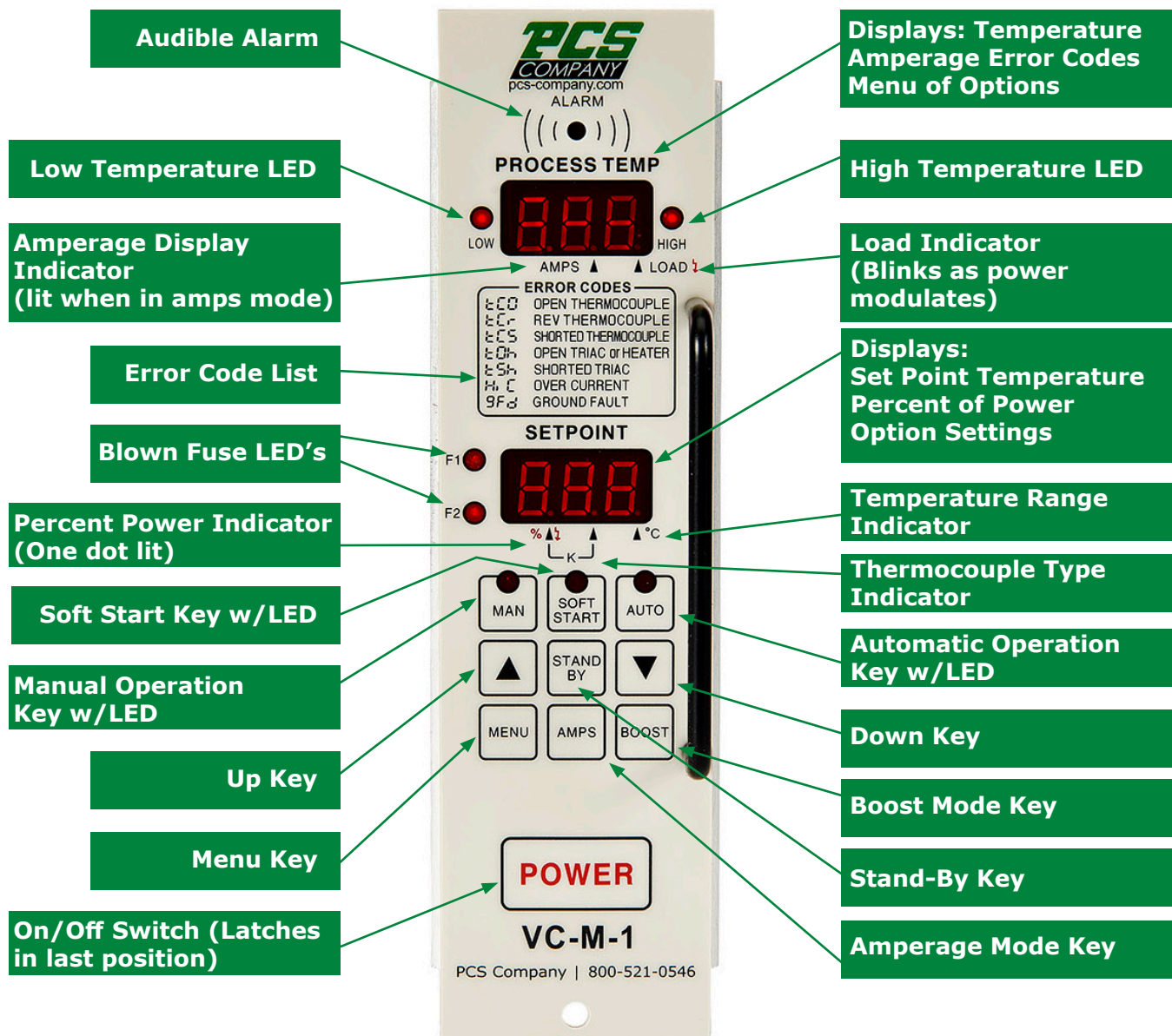
Safety Features:

- High voltage thermocouple protection (fused)
- Module high current protection (fused)
- Power disabled to heater:
 - oTriac shorted
 - oTriac open
 - oHeater open
 - oOver temperature
 - oHigh amperage
- Audible alarm (selectable on/off)



Item Number	Input	Voltage	Max Wattage
VC-M-1	Digital	240	3600

VC-M-1 Controls & Features



VC-MP-1 Hot Runner Temperature Control Modules

The VC-MP-1 Temperature Control Module has been intelligently designed, making it easy to set up and simple to use, while maximizing productivity, and providing an exceptional range of features, in order to meet the rigorous requirements of today's plastics industry. The Microprocessor based circuitry of the VC-MP-1 performs a full array of diagnostic and operational functions. Set-point temperatures are automatically maintained by means of our fully Adaptive-auto-tuning PID/FUZZY LOGIC function.

The VC-MP-1 Module has been designed with the operator in mind; therefore it is easy to use. What could be simpler than, just turning it on, setting the operating temperature using the pinwheel set-point, then letting it run?

- Automatic or Manual Operation
- Advanced Anti-Arcing Circuitry w/"ITC" Main frames
- Automatic Soft Start
- Amperage Measurement & Display
- Type "J" or "K" Thermocouple
- "F" or "C" Temperature ranges
- Selectable Control Methods – Adaptive-auto-tuning PID or Fuzzy Logic
- Manual Control for non-thermocouple applications
- Blown Fuse indicator
- This Module operates in all "G" series, 15 amp main frames

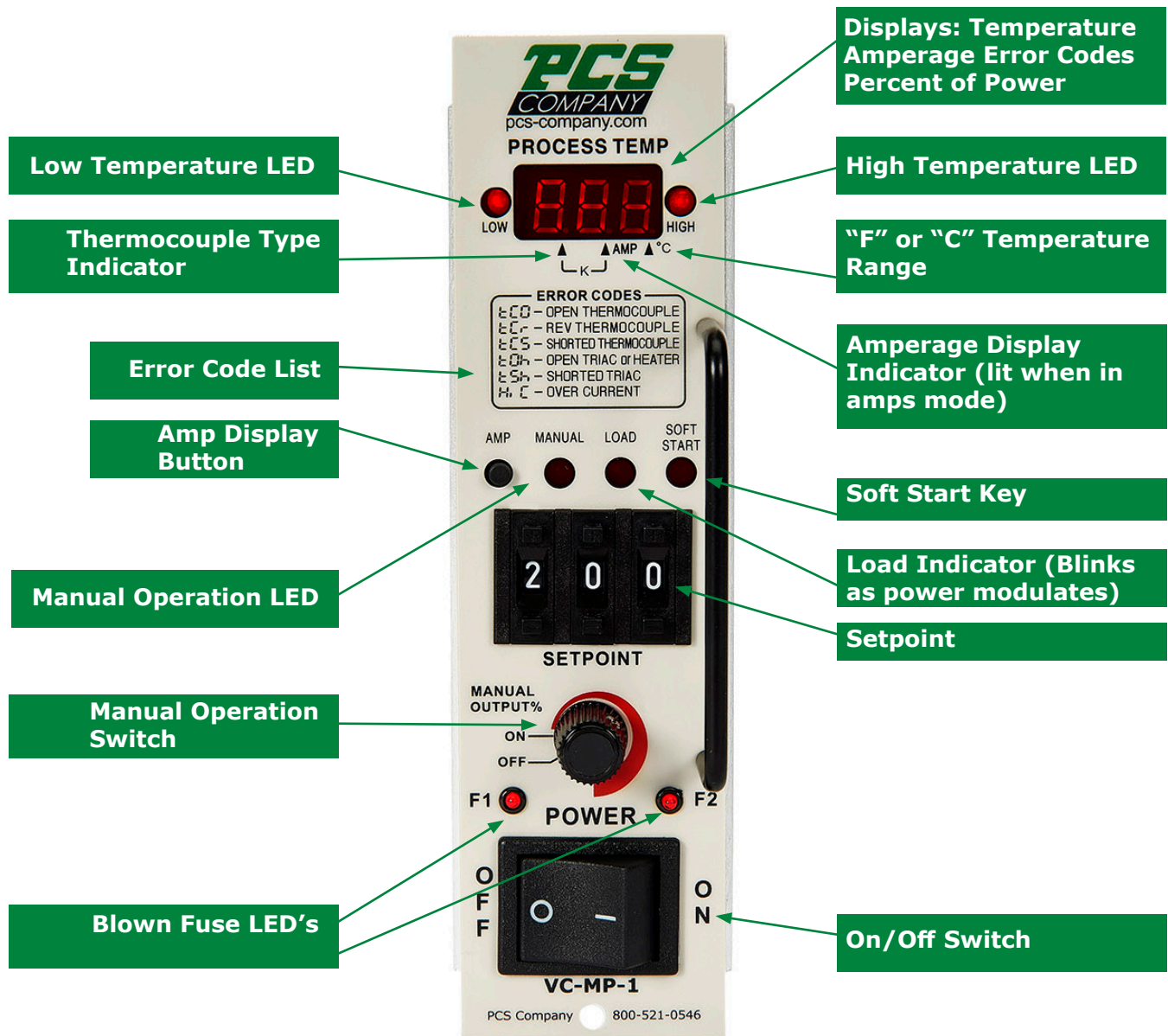
Diagnostic Features:

- Ground fault detection (selectable range)
- High amperage alarm (selectable range)
- Thermocouple - open, shorted & reversed alarm
- Triac - shorted & open alarm
- Heater open alarm
- High and low temperature alarm
- Blown fuse indicators
- Ground fault detection (selectable range)
- High amperage alarm (selectable range)
- Thermocouple - open, shorted & reversed alarm
- Triac - shorted & open alarm
- Heater open alarm
- High and low temperature alarm
- Blown fuse indicators



Item Number	Input	Voltage	Max Wattage
VC-MP-1	Mechanical	240	3600

VC-MP-1 Controls & Features



VC5H Hot Runner Control Module

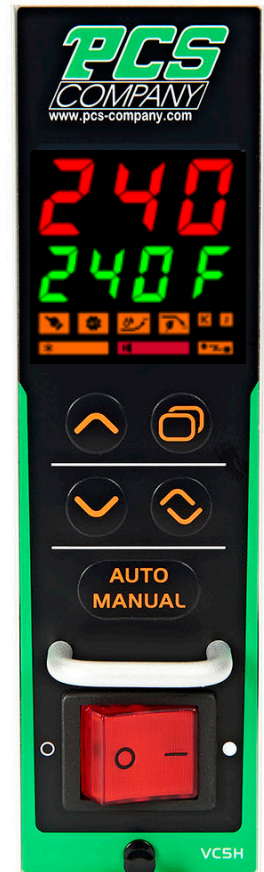
PCS Company's VC5H hot runner control module is fully featured and operates in all standard 240v "G" series mainframes. Take advantage of features such as auto tuning, digital control, internal alarm buzzer, soft start, selectable between J or K thermocouple and hot keys for easy set up.

Features:

- LCD Display Module
- One-key Start(Stop) / standby(Boost) function
- Built-in Buzzer
- Overvoltage protection, preventing burning of module resulting from faulty wiring
- Heater short-circuit protection
- Automatic detection of wire breakage of heater
- TRIAC short-circuit protection
- Detection against temperature wire breakage and reverse Troubleshooting of Temperature Sensor wiring.
- Blown Fuse detection
- Display function of current and output ratio.
- Two options for trigger output (phase/zero level)
- Smart SOFT START function
- Manual output in case of temperature sensor unusually
- Auto/Manual Selection Function
- PID Automatic Temperature Control
- Output percentage limit setting
- Two options of temperature sensor wire types (J/K)
- Two options of temperature unit (°C/°F)
- Six alarm options
- Temperature Range:
K type: 0~600°C(32~999°F) / J TYPE: 0~600°C(32~999°F)

Specifications:

- Power Input: 230Vac ±10%, 50/60Hz
- Power Consumption: 230Vac: 3W
- Power Output: 3450W, 230Vac/15A
- Input Temperature Sensor: J/K type
- Temperature Control Range: 0~600°C / 32~999°F
- Control Accuracy: ±0.25%FS
- Measurement Accuracy: ±0.25%FS
- Storage Temperature: -20~70°C / -4~158°F
- Working Temperature: -10~50°C / 14~122°F
- Humidity: 0~80%RH (no condensate)
- Output Method: Zero Level/Phase
- Fuse: Quick response ceramic 250Vac /20A 30mm
- Detection Function: Current/ Fuse open circuit/ TRAIC short-circuit



Item Number	Input	Voltage	Max Wattage
VC5H	Digital	240	3600

VC5H Display Features

