

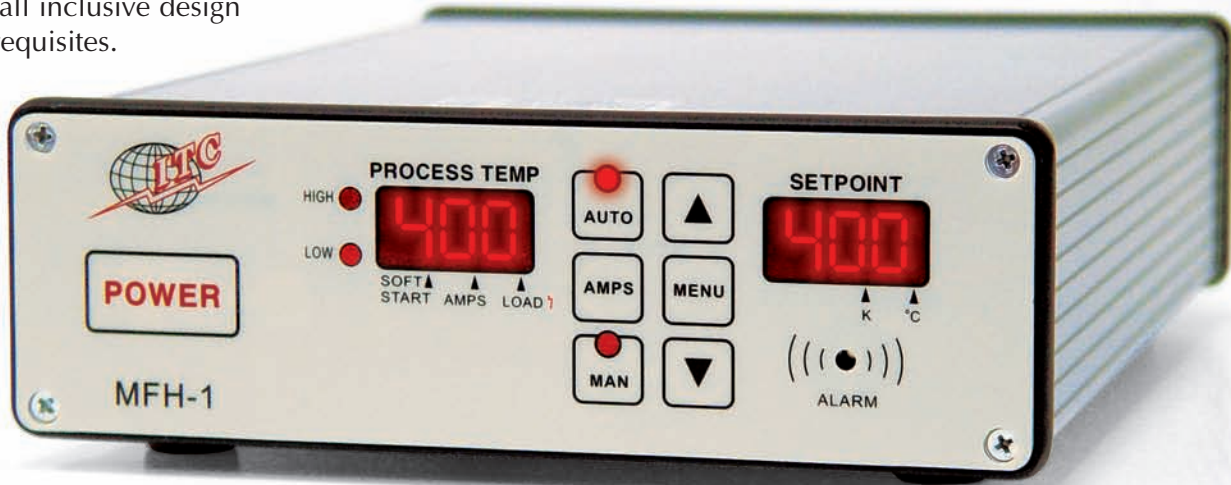


MFH-1

Single Zone Temperature Control System

Totally Digital & Self Contained for Today's Industry

The MFH-1 is a 15 amp, microprocessor-based, single zone temperature controller designed for today's demanding needs. Its compact foot print, robust design with rugged extruded aluminum case and advanced features are ideally suited for use with hot sprue bushings, machine nozzles or in areas where this condensed size and all inclusive design are requisites.



The latest in microprocessor technology offers many improved and unique operating features not found elsewhere, providing ease of use, the flexibility of menu selectable features and settings, as well as real time fault detection and alarm.

SUPERIOR FEATURES:

- Compact, durable and full featured design
- Easy to use
- Preferred diagnostic features
- Large Dual Digital Displays – Easy to read temperature, setpoint and diagnostic conditions
- Audible Alarm – Sounds during error conditions
- Fuses – Mounted on rear panel for easy access
- Soft Start LED Indicator – Lit when in soft start mode
- Heater Load LED Indicator – Lit as power is applied to heater
- Bumpless Transfer – APO (average power output) with learned % power for thermocouple failure conditions

SELECTABLE FEATURES:

- Auto or Manual Operation – LED mode indicator
- Type J or K Thermocouple – LED mode indicator
- F° or C° Temperature Range – LED mode indicator
- Amperage Monitoring & Display – LED indicates AMP mode
- Audible Alarm – Selectable on /off
- Front Panel Lockout – Selectable on/off

ENHANCED DIAGNOSTICS:

- High/Low Temperature – LED's indicate fault (selectable range)
- tCr Error Display – Thermocouple Reverse
- tCO Error Display – Thermocouple Open
- tCS Error Display – Thermocouple Shorted
- tOh Error Display – Triac/Heater Open
- tSh Error Display – Triac Shorted
- HiC Error Display – High Amperage Alarm (selectable range)

SAFETY FEATURES:

- High Voltage Thermocouple Protection (fused)
- Module High Current Protection (fused)
- Electrically Isolated Front Panel
- Power Disabled to Heater:
 - Triac Shorted
 - Triac Open
 - Heater Open
 - Over Temperature
 - High Amperage

Process Temperature Window
Displays: Temperature
Amperage
Error Codes
Menu of Options

Up Key
Automatic Operation
Key w/LED

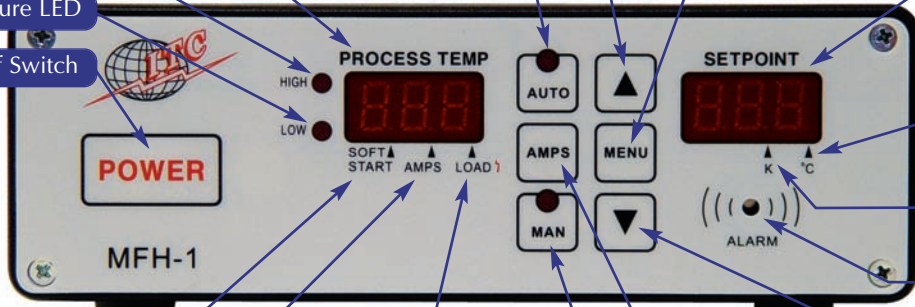
Menu Key

Setpoint Display Window
Displays:
Set Point Temperature
Percent of Power
Options Settings

High Temperature LED

Low Temperature LED

Power On/Off Switch



Temperature Range
"C" when lit

Thermocouple Type
"K" when lit

Audible Alarm

Down Key

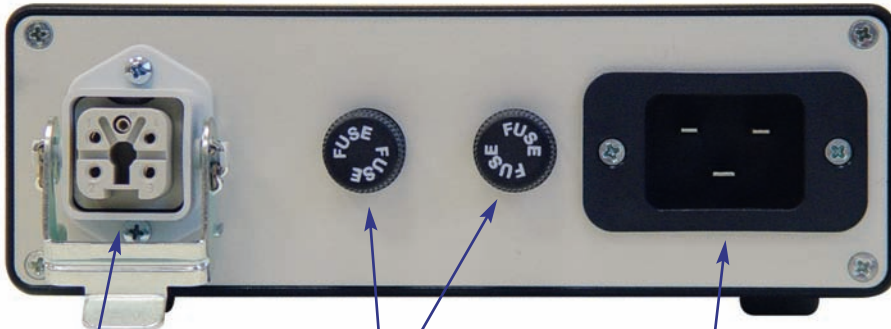
Soft Start Indicator LED
(lit when in soft start mode)

Amperage Display Indicator
(lit when in amps mode)

Heater Load Indicator (blinks
as power modulates to heater)

Amperage Mode Key

Manual Operation Key



Mold Power & Thermocouple
Main Frame Connector (female)
(mating connector 1Z-FE
supplied with system if PTC1
Combination Power and
T/C cable is not ordered)

15 Amp Fuses

240V Input Power Connector (male)
(mating connector MFH-1-PC
supplied with system if MFH-1-IPC
input power cord is not ordered)

These connectors are supplied
when **no cables are ordered**



MFH-1-PC
Cable End for Power Cord
Requires 14/3 SJ or SJO



1Z-FE
Cable End for
Main Frame

Optional Items



MFH-1-IPC
240Vac Input
Input Power Cable 240Vac



PTC1
Combination Power & T/C Cable

PRODUCT SPECIFICATIONS:

- 208 to 240Vac, single phase
120Vac (Optional)
- 50/60 Hz
- 15 Amp Capable
- 3600 Watts
- Size: 6 1/2" Wide, 2" High,
10" Deep
- Control System Power Usage,
Less than 5 watts
- Set Point Range – 0° to 999° F
- Control Accuracy – +/- 1° F
(0.5° C)
- Calibration Accuracy – Better
than 0.2% full range
- Cold Junction Compensation
- Operating Temperature Range
-32° to 120° F
- Output Drive – Internal solid
state triac, zero crossing
AC pulse

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