HEAT-TIMER CORPORATION

MPC PLATINUM

CYCLING STEAM HEATING CONTROL

BOILER OR MOTORIZED VALVE

Efficient Steam Heating Control: Automatically manages a boiler or motorized valve optimizing energy use and reducing fuel consumption.

Remote Monitoring & Control: Integrates with Building Management Systems for easy real-time adjustments from anywhere.

Simple Setup & Operation: Straightforward installation and easy management, allowing both technical and non-technical staff to operate with ease.

DESCRIPTION

The Heat Timer MPC Platinum sets a new standard in precise and efficient control for steam heating systems. Engineered specifically for commercial and industrial heating applications, this highly adaptive control system can efficiently manage a single boiler or motorized valve, ensuring your heating system operates at peak performance, regardless of the building's size or usage.

With advanced algorithms that monitor and adjust boiler operations based on real-time demand, the MPC reduces unnecessary fuel consumption, translating into significant energy savings and lower operational costs. Its modular design and flexible configuration options make it a perfect fit for a wide range of applications, from schools and hospitals to apartment complexes and commercial buildings.

Ready to optimize your heating system and save on energy costs?

Contact us today for a free consultation or to schedule a system assessment.

Email: **Sales@heat-timer.com**

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WHY CHOOSE THE MPC PLATINUM?

- **Precision Control:** Automatically adjusts heat output maintaining optimal comfort while reducing energy waste.
- **Comprehensive Monitoring:** The MPC integrates seamlessly with building automation systems (BAS), providing remote access and monitoring. This ensures facility managers can oversee performance, make real-time adjustments, and troubleshoot from anywhere, reducing the need for on-site interventions.
- **User-Friendly Interface:** Designed with simplicity in mind, the easy-to-read LCD display and intuitive navigation make it accessible to both technical staff and non-technical personnel alike. Setup and operation are straightforward, minimizing downtime during installation and maintenance.
- **Durable and Reliable:** Built to withstand the rigors of industrial environments, the MPC is a long-term solution that delivers consistent performance even in demanding conditions.

MPC PLATINUM VERSATILE APPLICATIONS

The Heat Timer MPC is designed to provide unparalleled control and efficiency for steam heating systems or a wide variety of settings. Its robust, adaptable features make it ideal for the following applications:

- **Commercial Buildings:**
- **Educational Institutions:**
- **Healthcare Facilities:**
- **Apartment Complexes & Residential Buildings:**
- **Industrial & Manufacturing Facilities:**
- **Public Buildings & Government Facilities:**

OPERATIONAL FEATURES

Steam Heating Control: Designed to utilize either a steam boiler or a steam valve in a district steam application. Each of these options has a set of pre-configured, but adjustable settings to meet the specific needs of each building.

Output Relay & Multiple Auxiliary Outputs: Utilizing the integrated system relay and multiple auxiliary outputs, the MPC Platinum can be configured to activate or de-activate additional equipment or controls based on any of the MPC cycle operation or on an independent programmable schedule.

Multiple Day and Night Schedules: Multiple adjustable Day and Night settings to help reduce fuel comsumption. In addition, a build-in 7 day programmable schedule, with 2 Day settings and 2 Night Setback settings per day, to customize operation for additional temperature control and fuel savings.

Boost and Vari-Boost: Allows bringing a building quickly back to a comfortable temperature after the cooler Night period, the MPC has a build-in Boost feature. The Vari-Boost feature allows the system to rise to an increase temperature for a calculated time period based on the outdoor temperature.

Vari-Boost with Early Shutdown: Another energy savings feature of the MPC that allows the building to switch to a Night Setback mode earlier than scheduled based on the outdoor temperature.

ADDITIONAL FEATURES

Outdoor Reset Control: For better comfort and increase energy savings, the MPC controls building temperature by varying the Cycle-ON to Cycle-OFF time based on Outdoor temperature.

Adjustable System Run-On Delay: Allows the System Relay an additional Run-On time to disburse residual heat in the boiler, thus reducing boiler stand-by loss.

Prove and Shutdown Inputs: The Prove input can then be used to check the status of other equipment, such as the end switch on a combustion air damper prior to firing the boiler. While the Shutdown input uses an external signal to enable or disable the heat call to the MPC.

Integration with BACnet and Modbus: The MPC supports BACnet and Modbus protocols, ensuring seamless communication and integration with modern Building Management Systems (BMS) for sophisticated control and monitoring.

Remote Access and Internet Connectivity: Fully equipped for internet connectivity, the MPC allows for remote access and monitoring from any location. Facility managers can view and control the system via the internet, ensuring real-time adjustments and system alerts, whether they are on-site or off-site.

Alarm & Diagnostic Capabilities (Internet Option Required): Comprehensive alarm systems and diagnostic tools alert operators to potential issues like low water levels or system malfunctions. This allows for prompt troubleshooting, minimizing system downtime.

SPECIFICATIONS

Voltage Input	120VAC
Power Consumption	30 VA
Heating Mode	Burner/ Motorized Valve or District Steam
Cycle Length	10 to 240 minutes
System Set Point	70°F to 250°F
System Differential	3°F to 75°F
Output Contacts	5 SPST
Output Rating	6A resistive, 1/3HP
Operating Ambient Temperature	20°F to 120°F
Enclosure	NEMA -1
Dimensions	13” x 13” x 5-1/2”
Weight	14 lbs
Temperature Display	Field select °F or °C
HS Sensor Temperature Range	-30 to 250°F (-35 to 120°C)

ITEM DESCRIPTION	PART #
MPC PLATINUM	926785-00
MPC PLATINUM-INTERNET	926785-RINET
MPC PLATINUM-BACNET/IP OR BACNET MS/TP	926785-BAC
MPC PLATINUM-MODBUS RTU	926785-BUS

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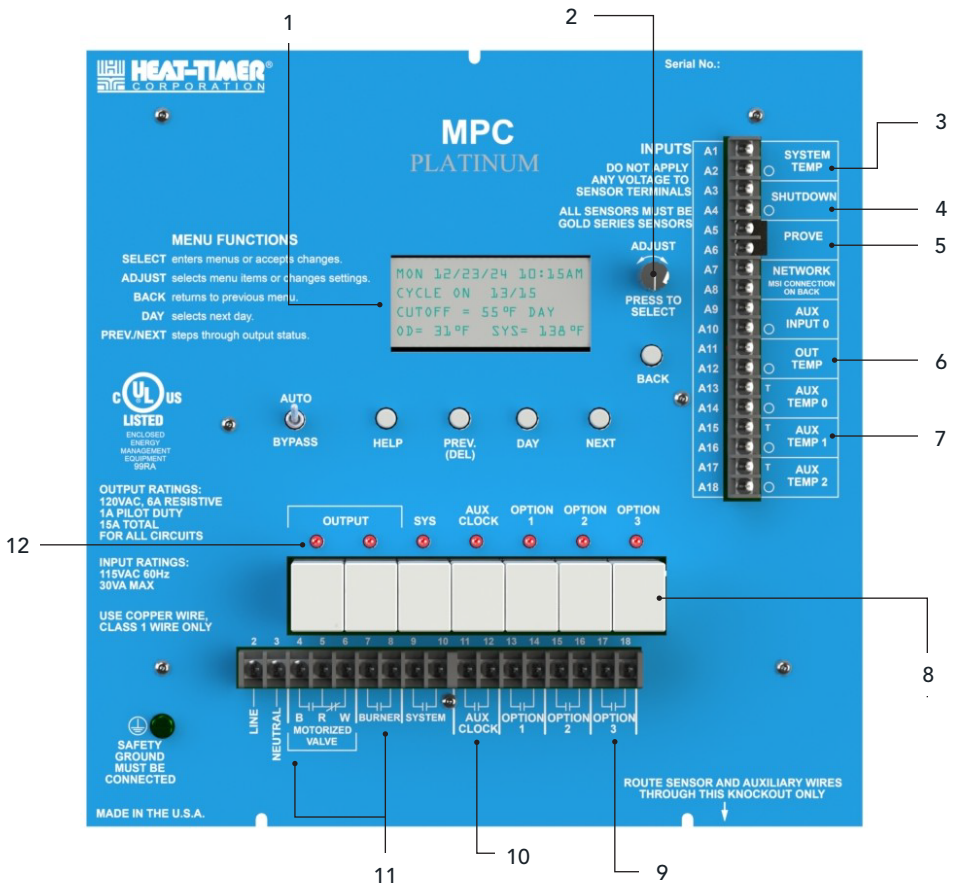
ENCLOSED ENERGY MANAGEMENT EQUIPMENT 99RA

MPC PLATINUM CONTROL



1. **DIGITAL DISPLAY -** shows the date, heating status, and cutoff, outdoor, and system temperatures.
2. **MENU ACCESS BUTTON -** Depress the knob to go to menu and accept changes. Rotate the knob to scroll and change settings. Other menu access buttons include BACK, HELP, PREV, STAGE and NEXT.
3. **SYSTEM TEMP -** Input terminals for the System Temp sensor mounted on the condensate return line or furthest radiator in the building.
4. **SHUTDOWN -** SHUTDOWN setting disable call for heat on CLOSE input. TSTAT setting disables call for heat on OPEN input.
5. **PROVE -** checks status of system components such as the end switch of a combustion air damper.
6. **OUT TEMP -** Outdoor air temperature sensor allows the Outdoor Cutoff feature to be enabled.
7. **AUX INPUTS** - Optional Temperature or Switch Closure inputs when using Remote RINET communication.
8. **OUTPUT RELAYS -** each relay has an output function.
9. **OPTIONAL OUTPUTS RELAYS -** Output relays can be configured for DHW Pump function as well as other functions.
10. **AUX CLOCK -** The AUX Clock output relay status is programmable based on a time schedule.
11. **BURNER / MOTORIZED VALVE -** Valve or Burner outputs are energized when MPC has a heat enable signal.
12. **PANEL LEDS -** indicate each Output Relay status as active.