



**HEATEC**

## Automated Monitor (Chatterbox)

**T**HE HEATEC AUTOMATED MONITOR is used primarily to monitor the temperature of hot oil used to heat asphalt cement storage tanks and other plant components. If the temperature of the oil falls below a pre-set point, the monitor initiates an alarm. The monitor can also be used to send an alarm in case of a power outage or to report violation of a security sensor. Note its key functions:

- Continuously monitors up to four operating conditions.
- Allows setting an alarm for any condition outside of preset limits.
- Automatically sends a synthesized voice message via telephone to report alarms.
- Automatically calls up to 8 different phone numbers to report alarm messages.
- Automatically repeats phone calls until the alarm is acknowledged.
- Provides synthesized voice report of operating conditions in response to inquiry by telephone.

The Heatec monitor keeps your people in touch with your hot mix plant. It operates as an alarm system to automatically telephone designated people if an important operation goes outside of its preset limits. It continues to initiate calls to all those persons until one of them answers the phone and dials a preset code to acknowledge the alarm.

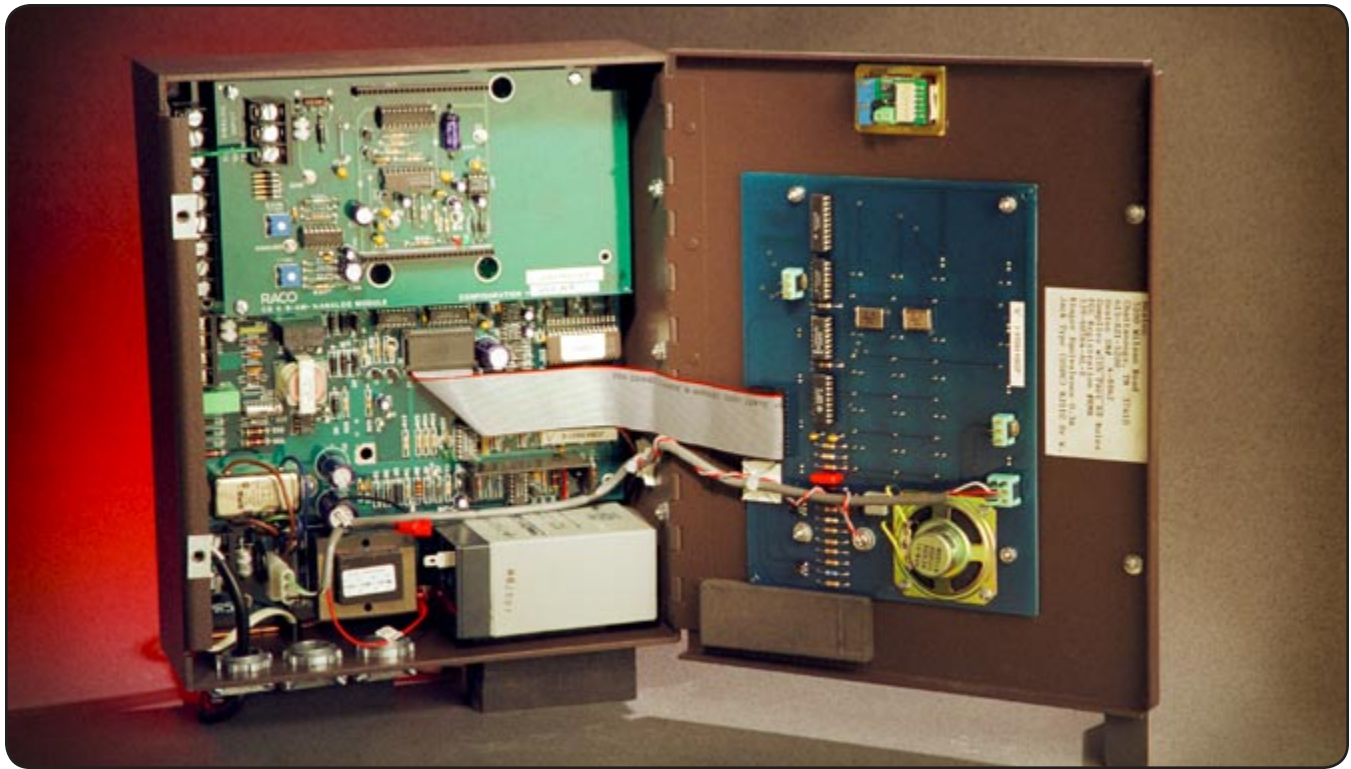
The monitor also operates as a reporter allowing your people to call the facility and check operating conditions, such as the temperature of the hot oil that heats the asphalt cement. It can be set to respond when the caller lets the phone ring a certain number of times. It responds to the caller in a synthesized voice, which recites a full status report of the plant.



Controls for the monitor are on the front of the panel and clearly marked. The temperature readout is at the top.

What it reports depends on how the monitor is set up initially. You will probably want it to report the current temperature of the hot oil and the recent heating cycles of the asphalt heater. You may also want it to inform you of the current status of the plant's electrical power and whether it has been OFF recently.

The monitor can also be set up to report the status of a second heater and to give the operating state of a pump motor. It can also be used as fire alarm or to report a breach of plant security. A built-in microphone allows two-way communication. Thus, the caller can listen to sounds in the area of the monitor or talk to persons in that area.



Hinged door provides easy entry into inside of enclosure for access to connections and backup battery.

### Construction

The monitor has all solid-state electronics in a metal enclosure. It is intended for indoor installation in an environment of 20 to 130 degrees F, with humidities up to 95 percent. The enclosure allows easy access to components inside, including the backup battery. The unit can be easily upgraded in the field to monitor additional conditions. The unit has a two year warranty on parts and labor.

### Programming

The unit comes programmed with standard alarm and normal speech messages. Custom messages (including station ID) can be keyboard-programmed from its built-in vocabulary of 230 words. It is easy to program. The keyboard is used to program alarm trip delay, time between calls, alarm reset time, telephone answer response time, alarm criteria, etc.

### Electrical

The unit operates on 105-135 volts ac, 50/60 Hz, 15 watts maximum. It has a backup battery that lasts up to 5 hours without recharging. Battery charging is by precision-regulated voltage. A rapid re-charge occurs automatically after drainage due to a power outage. The unit has built-in protection against spikes and surges on phone, power and signal lines.

### Phone capabilities

The unit works with standard telephone lines and uses a modular jack. It works with both pulse and tone-dial telephones. It dials up to 8 different numbers, each up to 16 digits. Alarm acknowledgement is by dialing star key (\*) on a touch tone phone or by call back. Can be programmed for PSX delays in 1-second increments.

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