



# EFM Workstation



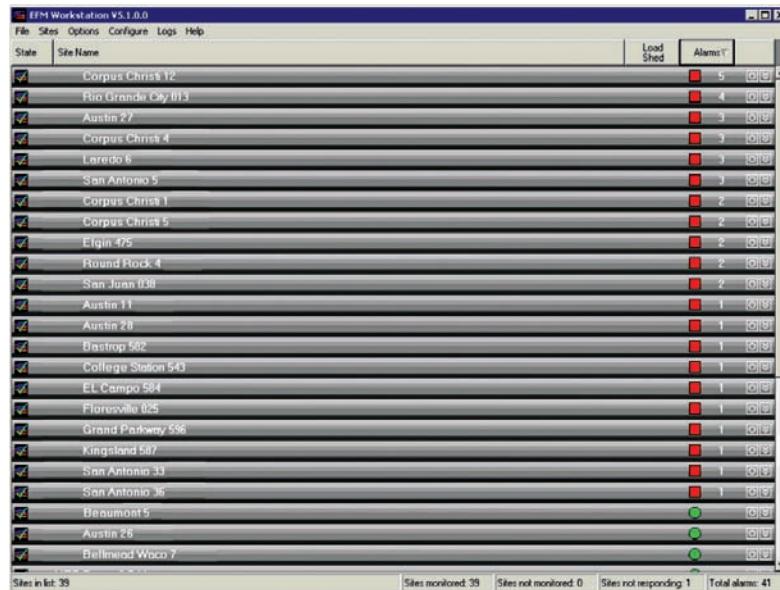
## Customer Value

Micro Thermo Technologies' Enterprise Facility Management Workstation (EFM Workstation™) software application is a powerful innovative product designed specifically to meet the corporate needs of supermarket chain operations. EFM Workstation acts as an enterprise-wide service tool, providing service managers with the ability to perform real-time equipment monitoring and other advanced services such as alarm acknowledgment, load shedding, setpoint and schedule changes and data reporting and analysis on a chain-wide basis.

The EFM Workstation solution optimizes energy and maintenance costs by providing the ability to coordinate the energy operations of an entire chain remotely from one central location, allowing unrestricted access to all store data.

EFM Workstation is used in conjunction with Micro Thermo's MT Alliance™ platform, which makes it a truly integrated solution. There is no need for separate systems for food safety, energy management, maintenance and store operation data analysis. With EFM Workstation and MT Alliance, everything is linked under one unifying platform.

One or more EFM Workstations can be linked via a corporate network or via a shared server located in another location using a secure connection such as VPN in conjunction and compliance with IT security standards.



Monitor all your stores from one display.

## Key Features and Benefits

- Temperature Monitoring:
  - Monitor and display real-time data from all stores on a single screen improving food safety and quality chain-wide.
- Energy Management:
  - Issue corporate-wide load shedding commands from a single station to reduce energy consumption when needed.
  - Perform global setpoint or schedule changes remotely to optimize store energy efficiency.
- Store Operation:
  - Take remote control of the MT Alliance PC installed in all stores.
  - Remotely view and acknowledge alarms in any store to eliminate unnecessary service calls and control maintenance costs.
  - No expensive or complicated 3rd party integration or set up – integrated with overall Micro Thermo architecture.
- Data Analysis:
  - Obtain historical data graphs for any point in any store.



ENGINEERING YOUR SUCCESS.

The screenshot shows the EFM Workstation V1.0.0.0 interface. At the top, a menu bar includes File, Site, Options, Configure, Log, Help, and a user icon. Below the menu is a toolbar with buttons for Site, See Name, Load, and Shift. The main window displays a list of sites with checkboxes and status indicators (green, yellow, red). A sidebar on the right contains buttons for Alarm List, Alarm Info, and Alarm Graph. A bottom navigation bar includes Site, List, 3, Sites monitored: 9, Sites not monitored: 0, Sites not responding: 0, and Total alarms: 53.

Site	Location	Status	Count
<input checked="" type="checkbox"/> Georgetown, TX		Green	32
<input checked="" type="checkbox"/> Bennington, AB		Green	7
<input checked="" type="checkbox"/> Haptonology, UC		Green	5
<input checked="" type="checkbox"/> Austin, TX		Green	4

Below the site list is a 'With Page' button and a 'Return Control' button. A 'Alarms' section is present with a table:

Priority	Date/Time	Source	Description	Acknowledged by	Ack Date/Time	Subsystem
High	2005-07-11 13:47	Sys. 7.6	Temperature too high			Refrigeration
Medium	2005-07-12 11:14:41	Sys. 7.8	Temperature too low	SU-Jonathan Saure	2005-07-12 11:37:46	Refrigeration
Medium	2005-07-11 16:41	Sys. 7.8	Temperature too high			Refrigeration
Medium	2005-07-12 11:14:39	Sys. 7.8	Temperature too low			Refrigeration
Medium	2005-07-12 11:19:46	Sys. 7.8	Temperature too low			Refrigeration

On the right side, there are buttons for 'Setpoints', 'Historical Graph', and 'Log In'. The bottom of the screen shows a navigation bar with Site, List, 3, Sites monitored: 9, Sites not monitored: 0, Sites not responding: 0, and Total alarms: 53.

- Display list of stores along with number of active alarms and current load shed level for each store.
- Acknowledge alarms from your corporate office.
- First call avoidance – identify and eliminate unnecessary service calls with on-line real-time analysis of alarms.

- Obtain historical data graphs for any system point in any store.
- Extract and aggregate up to three years of data for all points.

The screenshot shows the IEM Workstation V1.0.0.0 interface. The main window displays a list of sites: Georgetown, TX; Fort Wayne, IN; Inglewood, CA; and Kirkland, WA. A configuration dialog box is open in the foreground, titled 'Subsystem'. It contains fields for 'Identification' (set to 'Rack&Gr1Vsp5IP'), 'Subsystem' (set to 'Point'), 'Physical Type' (set to 'Brand'), and 'Type' (set to 'Brand'). Below these are 'Command' and 'Spool' fields, with 'Spool' currently set to '20.0'. At the bottom of the dialog are 'OK' and 'Cancel' buttons. The background shows a navigation bar with tabs like 'State', 'Site Name', 'Load Shed', and 'Alarm List', and a sidebar with 'Alarms' and 'Logs' sections.

- Make corporate setpoint changes for an individual store, a group of stores or all stores.
- Issue corporate load shedding requests on an individual store basis, a group of stores or for the entire chain.

## Supermarket Controls Solutions...**Simply Powerful**



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