



### Data logging of 17 monitored system parameters, 15 data points provides valuable troubleshooting and archiving capability

We are formally releasing our KE2 Data Logging this month. This capability gives you a precise look into the refrigeration system using a series of 17 monitored parameters and

15 data points. As an accessory feature of the KE2 Evaporator Efficiency controller, the data log provides access to an in depth view of the past 30 days of system data including: temperatures, pressure, alarm status and more – data useful for trouble shooting and documentation for food safety.

Data in the stored log is collected in 10 minute increments and can be accessed with the KE2 Logs Utility once a proper key has been activated. For more precise data collection, or for troubleshooting, the KE2 Logs Utility can be used to collect live data in 1 second to 10 minute intervals. This data is stored directly on your computer's hard drive in CSV format which is compatible with Excel or other data and graphing programs. For advanced data collection, once a key is activated, the parameter values are streamed in XML format and can be accessed with an appropriate 3rd party program.

Controller data logging keys are available allowing 2-week, 6-month, permanent, or XML only access to a controller's data. The choice of key durations provides cost effective and flexible solutions for quick troubleshooting, medium term system analysis or product lifetime data logging and archiving. Note, all keys enable XML access for the keys duration.

Monitored parameters include: system state, system state index, suction pressure, suction temperature, saturation temperature, superheat, EEV % open, room temperature, coil temperature, aux. monitor temperature, LLS/compressor relay on/off, fan relay on/off, defrost relay on/off, digital input 1, 2 & 3 (on/off), and alarm type,

Data points include: MAC address, IP address, firmware version, company name, phone #, location, log key, log key version, valve type, DI1 type, DI1 state, DI2 type, DI2 state, DI3 type and DI3 state.

To order a data logging key for a customer, please contact KE2 Therm with the controller's Serial Number or MAC address. Both can be found on stickers on the back of the controller. Data logging is available with KE2 Evap Controller firmware versions 02.028 and later. Controllers with prior versions need to be upgraded before activating a data log key.

Complete instructions for obtaining, and using, the KE2 Data Logging are available in bulletin Q.5.13. Wholesaler price for the controller is found in the January 2012 Price Schedule, A.9.2

### Customer Quote:



“The KE2 controller pays for itself by eliminating the service calls for de-icing the coils several times a year. I also like the fact that it is very visible...and that you can scroll the memory to see the history of what's happening with the cooler and freezer! I also like the fact that it is doing less defrost cycles, that were not needed! Thus, saving more energy.”

Dick Bold, Owner  
McDonald's - Godfrey, IL

To see the entire McDonald's case study visit our website at [www.ke2therm.com](http://www.ke2therm.com), and click on the Case Studies tab.

### Firmware Version 2.028 Released.

Updated firmware is available for KE2 Evap controllers.

#### The release includes these upgrades:

- scrolling text on controller front panel
- KE2 HSV electric valve option
- Fans on with compressor option
- Excessive Defrost Alarm
- added superheat alarm with a mechanical valve
- Additional refrigerants: R408A, R409, R438A
- Door Alarm Delay setpoint
- Configurable Auxiliary Relay
- added HTML home page for users without adobe flash (iPhone & iPad), valid only with active log key