



Webpage Views for KE2 Therm Serial Controllers

KE2 Temp + Defrost ■ KE2 Temp + Valve Control ■ KE2 Low Temp + Defrost ■ KE2 Adaptive Control

The Webpage screenshots show the detailed system information, setpoints, alarm notification, and device information that is available for KE2 Therm's Serial-ModBus controllers, when accessed through a KE2 LDA (Local Area Dashboard & Alarms).

The webpages can also be accessed through the Internet by connecting through the KE2 SmartAccess portal. See bulletin

Q.5.42 for more information on connecting through KE2 Smart Access, or view our YouTube videos at www.youtube.com/user/ke2therm.

Webpages

KE2 LDA Dashboard View
KE2 Temp + Defrost
KE2 Temp + Valve
KE2 Adaptive Control &
KE2 Low Temp + Defrost

Below
Page 2
Page 3
Page 4

The KE2 LDA Dashboard - for accessing KE2 Therm Serial-Modbus controllers

The MAC column lists each controller's unique identifier.

Ethernet controllers: the MAC address for the controller. Even when the password is changed, the MAC address remains unchanged.

Serial controllers: The serial controllers Communication Address is shown here.

The IP address is essentially the "phone number" for reaching a particular Ethernet controller. Serial devices are designated as Service View.

Current Operating Condition

Current Room Temp

Name of portal

User defined name to identify each controller

List of all controllers on the portal (both, Serial-Modbus or Ethernet).

Click on an individual controller to view the detailed webpage for that controller

Suction Pressure

Superheat, only displayed for controllers with pressure transducer and suction temperature sensor.

Current evaporator coil temperature

Customize the dashboard. Dropdown displays all possible dashboard fields. "+" means they will be displayed, "-" means they are hidden.

Enter e-mail addresses for alarm alert notification.

Use to purchase licenses.

Returns you to the dashboard after viewing an individual controllers webpage.

Date KE2 Smart Access license will expire.

Designates the strength of the network connection. One star is the worst, five stars is the best.

Alarm Status for each controller. Background will be highlighted red when in alarm.

Location	MAC	IP	Mode	Room
C Store Freezer	00:04:A3:17:4D:B9	192.168.107.36	Refrigerate	-3.5 F
Flower Shop	00:04:A3:C1:89:E3	192.168.1.221	Off	43.3 F
Flower Shop	00:04:A3:BC:B3:1A	192.168.1.220	Off	43.0 F
Grade school - Cooler	00:04:A3:CE:48:08	192.168.1.129	Off	36.9 F
Grade school - Freezer	00:04:A3:CE:47:16	192.168.1.138	Refrigerate	-1.9 F
KE2 Adaptive 1	E4:95:6E:40:65:F3:COM1:34	Service View	Refrigerate	18.3 F
KE2 Adaptive 2	E4:95:6E:40:65:F3:COM1:33	Service View	Refrigerate	36.3 F
KE2 Temp 1	E4:95:6E:40:65:F3:COM1:31	Service View	Refrigerate	36.9 F
KE2 Temp 2	E4:95:6E:40:65:F3:COM1:32	Service View	Off	14.9 F
Old Dutch	00:04:A3:C6:FF:0F	192.168.0.145	Refrigerate	-4.9 F

Coil	Superheat	Suction	Alarm	Health	License
-10.0 F	0.0 F	20.2 psig	All Clear	★★★★★	Sun Feb 17 2019
43.3 F	41.3 F	4.2 psig	All Clear	★★★★★	Mon Nov 07 2016
43.0 F	40.7 F	4.6 psig	All Clear	★★★★★	Mon Nov 07 2016
17.3 F	N/A	N/A	All Clear	★★★★★	Tue Jan 05 2021
-16.7 F	N/A	N/A	All Clear	★★★★★	Tue Jan 05 2021
16.1 F	N/A	N/A	All Clear	★★★★★	Sat Aug 17 2019
15.9 F	N/A	N/A	All Clear	★★★★★	Sat Aug 17 2019



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KE2 Temp + Defrost

For medium temp applications ■ air defrost ■ scheduled defrosts

User defined name for the controller. Click the Device Name box under Device Info to change.

KE2 Therm controller type

Simplified view for mobile devices. Displays only the System State section of information.

Current system performance

Forces the controller into the next system mode.
Defrost
Refrigerate
Off

Clicking the ? reveals the blue section, with Setpoint details.

Setpoint Name

Setpoint Range

Current

The screenshot shows the KE2 Temp + Defrost webpage interface. At the top, there's a header bar with the title 'KE2 Temp 1 (KE2 Temp)' and a 'Show Simple View' button. Below this is the 'System State' section, which contains four icons: 'SystemMode' (Refrigerate), 'RoomTemperature' (36.9 F), 'Relay' (Relay On), and 'Alarms' (None). The 'Manual System Control' section has a 'Next Mode' button. The 'Setpoints' section contains several setpoint cards: 'RoomTemperature' (Limits: Min: -50 F, Max: 100 F, Current: 35 F), 'AirTempDiff' (Limits: Min: 1 F, Max: 30 F, Current: 3 F), 'Compressor Starts Per Hour' (Limits: Min: 5, Max: 10, Values: 0, Special: 0 => Disabled, Current: 6), 'Defrost Time' (Limits: Min: 0, Max: 720, Current: 1), 'DefrostsPerDay' (Limits: Min: 0, Max: 13, Special: 13 => Custom, Current: 8), 'HiTempAlarmOffset' (Limits: Min: 1 F, Max: 10 F, Current: 10 F), 'HighAndLowAlarmDelay' (Limits: Min: 1, Max: 180, Current: 1), 'LowTempAlarmOffset' (Limits: Min: 1 F, Max: 10 F, Current: 5 F), 'ModbusAddress' (Limits: Min: 1, Max: 247, Current: 31), and 'Temperature Units' (Limits: Values: Fahrenheit, Celsius, Current: Fahrenheit). The 'Device Info' section contains six boxes: 'actual_version' (1.8), 'address' (31), 'commTimeouts' (0), 'device_name' (KE2 Temp 1), 'firmware_id' (20643), and 'name' (KE2 Temp). Annotations with red lines point to various elements: 'User defined name for the controller...' points to the 'device_name' box; 'KE2 Therm controller type' points to the 'name' box; 'Simplified view for mobile devices...' points to the 'Show Simple View' button; 'Current system performance' points to the 'System State' section; 'Forces the controller into the next system mode...' points to the 'Next Mode' button; 'Clicking the ? reveals the blue section, with Setpoint details.' points to the '?' icon on the 'RoomTemperature' setpoint card; 'Setpoint Name' points to the 'RoomTemperature' setpoint card; 'Setpoint Range' points to the 'Limits' section of the 'RoomTemperature' setpoint card; 'Current' points to the 'Current' value of the 'RoomTemperature' setpoint card.

actual_version: 1.8
address: 31
commTimeouts: 0
device_name: KE2 Temp 1
firmware_id: 20643
name: KE2 Temp

Firmware Version

ModBusAddress
Must be unique, between 1 and 247

Timeout Counter

User defined name for the controller

For KE2 Temps: 20643

KE2 Therm controller designation



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KE2 Temp + Valve Control

For low or medium temp applications with EEV ■ air defrost ■

User defined name for the controller. Click the Device Name box under Device Info to change.

KE2 Therm controller type

Simplified view for mobile devices. Displays only the System State section of information.

KE2 Temp + VC (Ke2 Temp Plus Valve Control) [Show Simple View](#)

System State

Current system performance

- Alarms: None
- SuctionPressure: -4.5 psig
- Relay: Relay Off
- RoomTemperature: 15.1 F
- SaturationTemperature: -62.3 F
- SuctionTemperature: 3.1 F
- Superheat: 65.4 F
- SystemMode: Defrost
- ValvePosition: 0 %

Manual System Control

Next Mode

Forces the controller into the next system mode.
Defrost
Refrigerate
Off

Setpoints

Clicking the ? reveals the blue section, with Setpoint details.

Setpoint Name

Setpoint Range/Options

Current

- Room Temperature: Limits Min: -50 F, Max: 100 F, Current: 35 F
- AirTempDiff: Limits Min: 1 F, Max: 30 F, Current: 2 F
- Compressor Starts Per Hour: Limits Min: 5, Max: 10, Values: 0, Special: 0 => Disabled, Current: 6
- Control Type: Limits Values: Superheat Control, EEPR Control, HGB Control, Current: Superheat Control
- Defrost Time: Limits Min: 6, Max: 720, Current: 45
- DefrostsPerDay: Limits Min: 0, Max: 13, Special: 13 => Custom, Current: 6
- Derivative: Limits Min: 0, Max: 255, Current: 3
- HiAlarmOffset: Limits Min: 1 F, Max: 10 F, Current: 5 F
- HighAndLowAlarmDelay: Limits Min: 1, Max: 180, Current: 90
- Input 0 Type: Limits Values: Pressure, Temperature, Current: Pressure
- Integral: Limits Min: 0, Max: 255, Current: 5
- LPCO Delay: Limits Min: 0, Max: 150, Special: 0 => Disabled, Current: Disabled
- LPCO Differential: N/A
- LPCO Pressure: N/A
- LowAlarmOffset: Limits Min: 1 F, Max: 10 F, Current: 3 F
- Max Operating Pressure: 1500
- Max Valve Steps: 5000
- ModbusAddress: Limits Min: 1, Max: 247, Current: 5
- Motor Step Rate: 300
- Motor Type: Unipolar
- Pressure SP: N/A
- Proportional: Limits Min: 0, Max: 255, Current: 3
- Refrigerant: Limits Values: R22, R134A, R404A, R407A, R407C, R410A, R717, R422A, R422D, R507, R448A, R449A, R450A, R438A, R408A, R409A, R407F, R744, R513A, Current: R404A
- Superheat: Limits Min: 5 F, Max: 50 F, Current: 8 F
- Temperature Units: Limits Values: Fahrenheit, Celsius, Current: Fahrenheit
- Valve Type: Limits Values: Custom, Mechanical, Hsv, Rsv, Sei, Ser, Carel, Current: Rsv

Device Info

- actual_version: 0.45 (Firmware Version)
- address: 5 (ModBusAddress Must be unique, between 1 and 247)
- commTimeouts: 0 (Timeout Counter)
- device_name: KE2 Temp + VC (User defined name for the controller)
- firmware_id: 21292 (For all KE2 Temp + Valve: 21292)
- name: Ke2 Temp Plus Valve Control (KE2 Therm controller designation)



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KE2 Temp + Defrost ■ KE2 Temp + Valve Control ■ KE2 Low Temp + Defrost ■ KE2 Adaptive Control

KE2 Adaptive Control & KE2 Low Temp + Defrost

KE2 Adaptive Control : for low or medium temp applications ■ electric defrost ■ adaptive (demand) or scheduled defrosts
KE2 Low Temp : for low or medium temp applications ■ electric defrost ■ scheduled defrosts

Simplified view for mobile devices. Displays only the System State section of information.

User defined name for the controller. Click the Device Name box under Device Info to change.

KE2 Therm controller type

Current system performance

Forces the controller into the next system mode. Off Refrigerate Defrost Drain Fan Delay

Clicking the ? reveals the blue section, with Setpoint details.

Setpoint Name

Setpoint Range/Options

Current

* Setpoint Not Available on the KE2 Low Temp

KE2 Adaptive Control Setpoints

- Room Temperature
- Air Temp Diff
- Aux Temp 3
- Aux Temp 3 State
- Aux Temp 4
- Aux Temp 4 State
- Defrost Pump Down Time
- Defrost Time
- Defrost Mode
- Defrost Term Temp
- Defrost Type
- Defrost Per Day
- Demand Defrost Param.
- Drain Time
- Electric Defrost Mode
- Extreme Diff
- Fan Delay Temp
- Fan State During Defrost
- Hi Temp Alarm Offset
- Hi and Low Alarm Delay
- Low Temp Alarm Offset
- Max Fan Delay Time
- Min Comp Offtime
- Min Comp Runtime
- Modbus Address
- Refrig Fan Mode
- 2nd Room Temp
- Temperature Units

KE2 Low Temp Setpoints

- Room Temperature
- Air Temp Diff
- Aux Temp 3
- Aux Temp 3 State
- Aux Temp 4
- Aux Temp 4 State
- Defrost Pump Down Time
- Defrost Time
- Defrost Mode
- Defrost Term Temp
- Defrost Type
- Defrost Per Day
- Demand Defrost Param.
- Drain Time
- Electric Defrost Mode
- Extreme Diff
- Fan Delay Temp
- Fan State During Defrost
- Hi Temp Alarm Offset
- Hi and Low Alarm Delay
- Low Temp Alarm Offset
- Max Fan Delay Time
- Min Comp Offtime
- Min Comp Runtime
- Modbus Address
- Refrig Fan Mode
- 2nd Room Temp
- Temperature Units

Only Available on the KE2 Low Temp

Compressor Starts Per Hour ?

actual_version 2.1

address 33

commTimeouts 0

device_name KE2 Adaptive 2

firmware_id 21176

name KE2 Adaptive

Firmware Version

Modbus Address
Must be unique, between 1 and 247

Timeout Counter

User defined name for the controller

For KE2 Adaptive Controls - 21176
For KE2 Low Temp - 20904

KE2 Therm controller designation

System State

- SystemMode Refrigerate
- RoomTemperature 36.5 F
- CoilTemperature 16.3 F
- Compressor Relay Relay On
- Fan Relay Relay On
- Defrost Relay Relay Off
- T3 Coil Temp 36.1 F
- AuxInput4 Disabled
- Alarms None

Manual System Control

Next Mode

Setpoints

- RoomTemperature ? Limits: Min: -50 F, Max: 100 F, Current: 35 F
- AirTempDiff ? Limits: Min: 1 F, Max: 30 F, Current: 10 F
- AuxTemp3 ? Limits: Values: Disabled, Room Temp, Coil Temp, Sys Off, Door Switch, 2nd Temp, Dfr Interlock, Dfr Lock, Init Defrost, Terminate Defrost, Current: Coil Temp
- AuxTemp3State ? Limits: Values: Open, Closed, Current: Closed
- AuxTemp4 ? Limits: Values: Disabled, Room Temp, Coil Temp, Sys Off, Door Switch, 2nd Temp, Dfr Interlock, Dfr Lock, Init Defrost, Terminate Defrost, Current: Disabled
- AuxTemp4State ? Limits: Values: Open, Closed, Current: Closed
- Defrost Pump Down Time ? Limits: Min: 0, Max: 10, Current: 10
- Defrost Time ? Limits: Min: 6, Max: 720, Current: 45
- DefrostMode ? Limits: Values: Demand, Schedule, Current: Schedule
- DefrostTermTemp ? Limits: Min: 35 F, Max: 90 F, Current: 50 F
- DefrostType ? Limits: Values: Electric, Air, Current: Electric
- DefrostsPerDay ? Limits: Min: 0, Max: 13, Special: 13 => Custom, Current: 0
- Demand Defrost Parameter ? Limits: Min: 0, Max: 90, Current: 30
- Drain Time ? Limits: Min: 0, Max: 15, Current: 2
- ElectricDefrostMode ? Limits: Values: Permanent, Pulse, Current: Permanent
- ExtremeDiff ? Limits: Min: 0 F, Max: 200 F, Current: 20 F
- Fan Delay Temp ? Limits: Min: -40 F, Max: 35 F, Current: 20 F
- Fan State During Defrost ? Limits: Values: Off, On, Current: Off
- HiTempAlarmOffset ? Limits: Min: 1 F, Max: 50 F, Current: 10 F
- HighAndLowAlarmDelay ? Limits: Min: 1, Max: 180, Current: 1
- LowTempAlarmOffset ? Limits: Min: 1 F, Max: 10 F, Current: 4 F
- Max Fan Delay Time ? Limits: Min: 0, Max: 20, Current: 2
- MinCompOfftime ? Limits: Min: 0, Max: 10, Current: 5
- MinCompRuntime ? Limits: Min: 0, Max: 10, Current: 2
- ModbusAddress ? Limits: Min: 1, Max: 247, Current: 33
- RefrigFanMode ? Limits: Values: Permanent, On w/Compressor, Title 24, Current: On w/Compressor
- 2ndRoomTemp ? Limits: Min: -50 F, Max: 100 F, Current: 0 F
- Temperature Units ? Limits: Values: Fahrenheit, Celsius, Current: Fahrenheit

Device Info

Compressor Starts Per Hour ? Limits: Min: 5, Max: 10, Values: 0, Special: 0 => Disabled, Current: 6