

KE2 Temp + Air Defrost

For Medium Temperature Applications with Air Defrost Condensed Quick Start Guide PN 20611

Q.3.65 September 2021

Complete Instructions Locations

Visit: http://ke2therm.com/product/ke2-temp-defrost/ and click the Link to Literature button

--- OR --QR code:

KE2 Temp Literature















What's in the Kit

The following parts are included:

- (1) KE2 Temp + Air Defrost controller
- (1) temperature sensor 45"
- (1) sensor ziptie
- (1) liquid tight cord grip
- (4) self-tapping mounting screws
- (2) screws for high voltage shield
- (1) programming sticker

Supplies List

The accessories required for the controller to work are supplied. However, some truck stock items may be needed. See the following list.

tOd d1

d2

43

d5 d6

48

d10

Only visible if

CUS (custom) is

selected for dPd

(Defrost per day)

- conduit to go between the controller & evaporator
- (2) conduit connectors (straight or elbow as required)
- (4) high voltage wires (matched to the load of the liquid line solenoid/ compressor and the controller.)
- wire labeling (numbers, colors, etc.)
- additional wire ties

- 18 gauge twisted shielded pair (if extending sensor wires)
- Cat5e or cable rated for RS-485 communication (if adding communication)
- foam insulation (if running wires outside the space)
- **silicone** (for sealing any box penetrations)

Controller Navigation

INDICATOR LIGHTS:

Red blinking – Real Time Clock battery needs to be replaced Yellow light – non-critical alarm (system running)

Green light – Liquid Line Solenoid (LLS) relay energized

- Access Setpoint mode by pressing and holding ENTER until tS (temperature setpoint) displays on the screen.
- Use ▲ and ▼ to scroll through available setpoints.
- Press ENTER to view the current setting.
- Use ▲ and ▼ to change the setpoint
 - Press ENTER to move between the digits to accelerate the changes.
- Press and hold ENTER to confirm each setpoint change.
- Press BACK to escape.

Setpoints



= Temperature Setpoint diF = Differential

Compressor Starts/Hour, Maximum CSH =

dPd = Defrost Per Day

dFt = Defrost Time **HAO** = High Alarm Offset **LAO** = Low Alarm Offset tAd = Temp Alarm Delay

Adr = Mod Bus Address **Unt** = Units for temp display (FAH or CEL)

Alarms - When amber LED is lit:

SSA = Shorted Sensor Alarm **OSA** = Open Sensor Alarm **HtA** = High Temp Alarm **LtA** = Low Temp Alarm

Basic Setpoints

Setpoint	Description	Minimum	Default	Maximum
tS	Temperature Setpoint	-50°F (-45°C)	35°F	100°F (38°C)
diF	Differential	1°F (1K)	2°F	30°F (17K)
CSH	Max. Comp. Starts/Hr.	5 (Off)*	6	10
dPd	Defrost Per Day	0	6	12, CUS**
dFt	Defrost Time	0 min	15 min	720 min
HAO	High Alarm Offset	1°F (1K)	5°F	10°F (6K)
LAO	Low Alarm Offset	1°F (1K)	3°F	10°F (6K)
tAd	Temp Alarm Delay	1 min	90 min	180 min
Adr	Mod Bus Address	1	1	247
Unt	Units for temp display	FAH	FAH	CEL

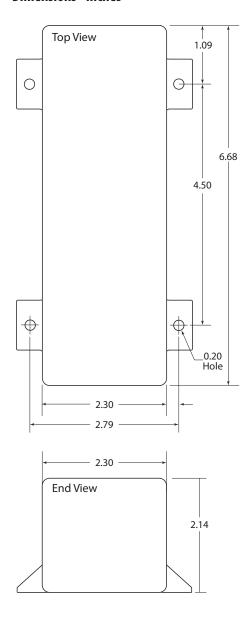
^{*}Selecting fewer than 5 compressor starts per hour results in the starts per hour feature being turned off. The compressor will then function on temperature only.

^{**} Selecting CUS (custom) unlocks additional Setpoints. See Advanced Setpoints table.



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Dimensions - Inches



Wiring Diagram

