THERMOSTATS & CONTROLLERS

MULTISTAGE SEVEN-DAY PROGRAMMABLE THERMOSTAT

70°

DESCRIPTION

The Kele KT7351 is a single or multistage seven-day programmable thermostat (°F or °C) for use with AHU control for both heating and cooling applications. It is designed for low voltage power and switching to control within 1°F (1.8°C) using Proportional plus Integral (PI) algorithms, and it includes adjustable delays to prevent equipment short cycling. The KT7351 has both system and fan switching with an internal sensor or remote sensor capabilities. It also has a number of energy-saving programs such as a seven-day clock with two occupied and unoccupied periods per day, optimal start, single-button continuous unoccupied, and adjustable occupied override. The cover has an easy-toread digital display for temperature, time, system status, and fan status and 16 dedicated buttons for day-to-day control necessities. The temperature display can be disabled or offset to enhance occupant perceptions. Other control features are listed below.



FEATURES

- PID control
- · Outputs up to three heat and three cool and HP
- Seven-day programming clock
- · 365-day holiday scheduling
- Two occupied and unoccupied periods per day
- Optimal start
- · Continuous unoccupied button
- Occupied override button (1-8 hours adjustable)

- · Economizer interface contact
- Display in °F or °C
- · Remote sensor inputs
- Keypad multi-level lockout
- Digital display with temperature and humidity
- Temperature display offset
- Setpoint range stops
- · Adjustable staging on/off times
- Fan control for electric or conventional heat

- System control
- Changeover manual or auto
- · Relay switching (no mercury)
- CE and UL listed and meets Title 24 requirements
- No battery backup required
- · Recovery ramp control
- · Replaces all T7300 versions

SPECIFICATIONS

Supply Voltage 20-30 VAC, 50/60Hz

Supply VA 5 VA

Clock Accuracy 12 or 24 hour, one min/month Display LCD 1"H x 3.55"W (2.54 x 8.89 cm),

±1°F or ±1°C

Remote Input Sensors

Room Temperature 20 k thermistor (Type 42) 0-10 VDC (D and M models) Humidity

3K platinum RTD **OSA Discharge Minimum** 20 k thermistor (Type 42) Dry contact in 30 VDC, 1 mA Occ Sensor

Enclosure White plastic **Keypad Lockout** Three levels Relays 30 VAC max (N.O.)

Running 1.5A H/C Inrush 7.5A

Outputs See wiring and ordering information Occ/Unocc Internal clock schedule or via

> keyboard PID

Control Algorithm Setpoint Range

Heating 40° to 90°F (4° to 31°C) 45° to 99°F (7° to 37°C) Cooling

Default Setpoint

Heating

Occ 70°F (21°C) 55°F (13°C) Unocc

Cooling

Dimensions

Warranty

Occ 75°F (24°C) 85°F (29°C) Unocc Deadband 2°F (1°C)

Keyboard, On/Auto Fan Switch **System Switch** Keyboard, H/O/C/Auto

No battery required, infinite program Power Interrupt

memory, 48-hour clock

Mounting Subbase with terminals (included) Operating Temperature 30° to 110°F (-1° to 43°C) **Operating Humidity** 5 to 90% RH (non-condensing)

> 4.5"H x 6.75"W x 2.19"D (11.4 x 17.1 x 5.6 cm)

Weight 1.2 lb (0.59 Kg) **Approvals** CE, UL 873, FCC, California Title 24

1 year

September 2016 GROWING SELECTION AVAILABLE ON KELE.COM

kele.com 877-826-9037 USA

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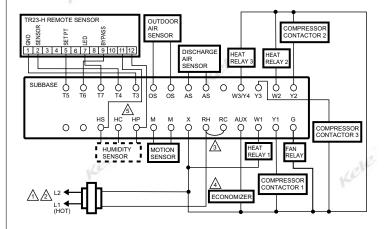
INSTALLATION

The thermostat comes with a subbase that mounts horizontally on a wall or a 2" x 4" (5.01 x 10.16 cm) outlet box with screws provided. No leveling is required.

WIRING

70°

T7351 COMMERCIAL PROGRAMMABLE THERMOSTAT



- POWER SUPPLY, PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED
- ENSURE TRANSFORMER IS SIZED TO HANDLE THE LOAD.
- A HEAT/COOL SYSTEMS WITH ONE TRANSFORMER REQUIRE THE FACTORY-INSTALLED JUMPER.
- USE ECONOMIZER INSTRUCTIONS FOR INSTALLATION DIRECTIONS.
- WHEN USING THE TR23-H FOR HUMIDITY SENSING THERE IS NO NEED TO WIRE HC TERMINAL

Terminal	Typical Connection	Terminal	Typical Connection
AS,AS	Discharge air sensor	os, os	Outside air sensor (3K RTD)
AUX	(A) 2nd H or C, (B) 3rd H or C, or (B,D,M) Economizer	RC	Power connection cooling transformer
G	Fan relay coil	RH	Power connection heating transformer
нс	Remote humidity common	Т3	Remote room sensor common
НР	Remote humidity power 24 VAC	T4	Remote room sensor thermistor (Type 42)
HS	Remote humidity signal 0-10 VDC	Т5	Remote setpoint
M, M	Motion sensor input (DI)	Т6	Remote push button
O/B	Heat pump changeover	Y1, Y2, Y3	Cooling stages 1, 2, 3

ORDERING INFORMATION

DESCRIPTION MODEL KT7351F2127 3H/3C conventional or 2H/2C heat pump seven-day or 365-day programmable thermostat with remote temperature and humidity sensor inputs, occupancy input, and integral humidity sensor T7351F2010

EASY RETURNS, LET KELE DO THE LEGWORK

RELATED PRODUCTS

ST-D42 Discharge air duct $20k\Omega$ thermistor sensor ST-FZ42-12 Averaging discharge air $20k\Omega$ thermistor sensor

TR22 Setpoint adjustment, network jack

TR23-N Setpoint adjustment, override button with LED, network jack, no Honeywell logo

TR24 Override button with LED, network jack

TR21 Wall mount remote indoor sensor: 20K ohm NTC (Type 42) **CI-24** Ceiling-mount occupancy sensor with SPDT isolated contact