

XE8410 SERIES

FAN-COIL CONTROL
WIRELESS REMOTE CONTROL DIGITAL THERMOSTATS

PRODUCT DATA



APPLICATION

The XE8410 wireless remote control digital thermostats are designed for ON/OFF control of the valve, or the valve and fan in 2-pipe fan-coil application.

The thermostat operates an on/off valve to provide control at the desired setpoint temperature.

Fan-coil thermostat models are available with constant fan operation, and have a 3-speed + auto. fan selector switch with low, medium and high settings.

FEATURES

- Liquid Crystal Display and Infrared remote control
- Mode of operation: COOL/HEAT/FAN.
- Temperature range from 10° to 30°C.
- Fan speed can be set at AUTO/HIGH/MED/LOW.
- Non volatile memory to keep system setting.
- Built in testing and calibration facility.
- Time shortening facility for ease of testing.
- Valve delay change protection.
- Suitable for use with Honeywell VC40/VC60 series and V4043/V4044 valves and compressor starters/relays up to 6A full load rating

SYSTEM



Item	Model No.	Description
1	XE8410	Full Set (including item 2~5)
2	XE8410-CB	Main Control Box
3	XE8410-HS	Hand set w/Mounting Bracket
4	XE8410-IR	Infrared Receiver
5	XE8410-SS	Remote Sensor

DIMENSIONS

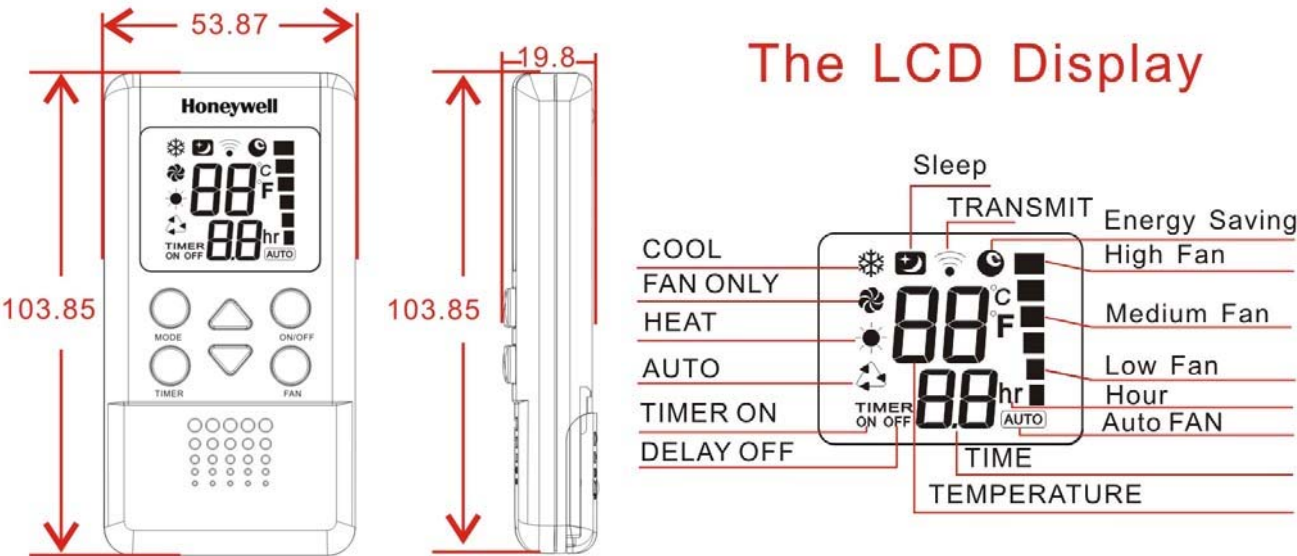


Fig. 1 XE8410 Handset

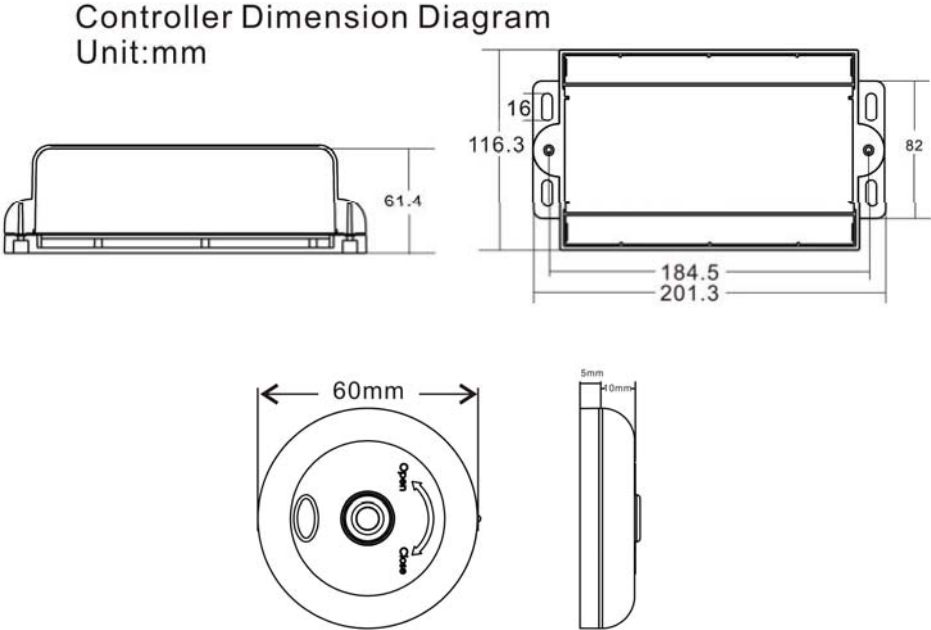
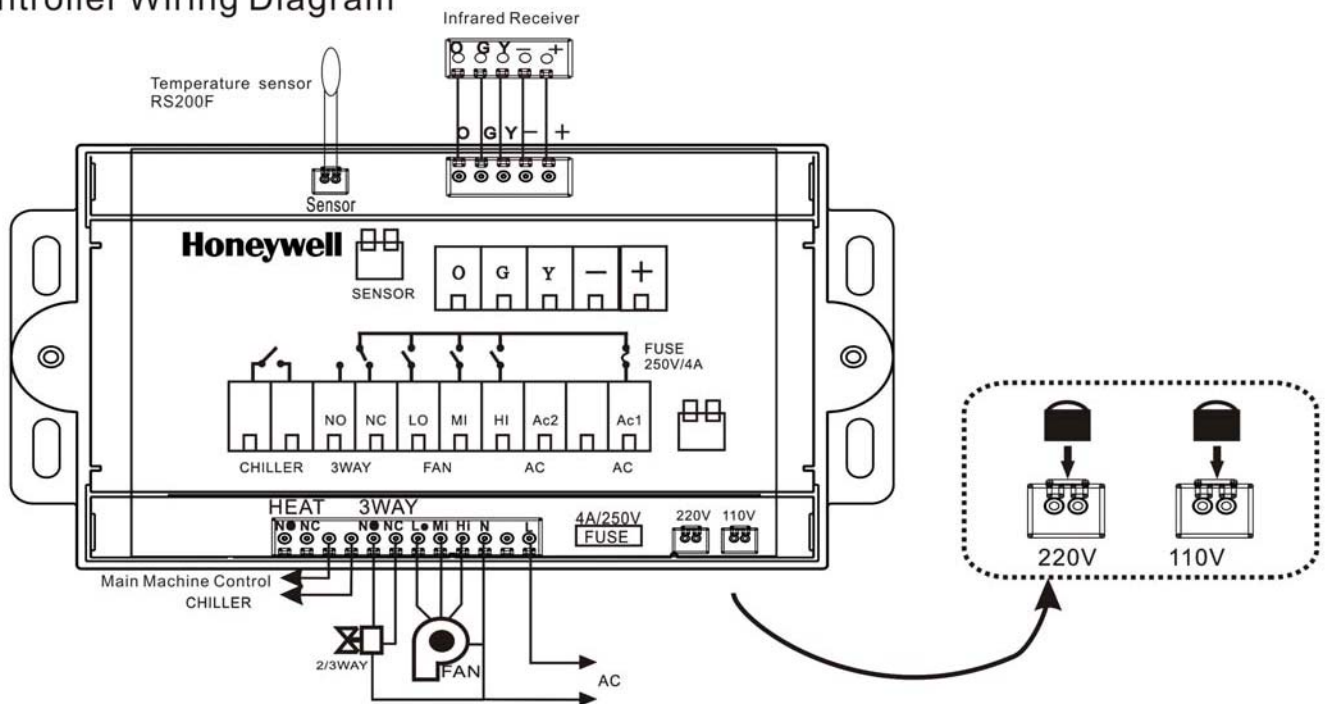


Fig. 2 Main Control Board & Receiver

Controller Wiring Diagram



Operation :

1 Power On/Off Button

Press On/Off button to turn on or off the thermostat. LED on the receiver unit will light up. The initial values on the remote controller are the values before it was last turned off.

2 Mode of Operation

Press MODE button to select COOL, HEAT or FAN ONLY function.

3 Temperature Setting

Press Δ or ∇ button to increase or decrease setting temperature. These buttons can be used only in COOL or HEAT mode (can not be used in FAN mode). Pressing Δ button will increase the setting temperature by 1°C. Also as pressing TEMP ∇ button will decrease the setting temperature by 1°C. setting temperature range is 10-30°C.

4 Fan Speed Selection

Press FAN button to select desired fan speed (LOW, MEDIUM, HIGH, or AUTO FAN). The FAN button can be used only in FAN or COOL mode.



5 Start/Stop Timer Operation

Start/stop timer may be used to start or stop air conditioner operation at any time within 24 hours. "TIMER ON" and "TIMER OFF" can be shown on the LCD display.

When the controller is "ON", press TIMER then use Δ or ∇ button to set DELAY OFF function on the handset. It can be set from 0 to 24 hours.

When the controller is "OFF", press TIMER then use Δ or ∇ button to set TIMER ON function on the handset. It can be set from 0 to 24 hours.

ELECTRICAL CHARACTERISTICS

POWER SUPPLY	220 Vac \pm 10%, 50/60 Hz 110 Vac \pm 10%, 50/60 Hz
POWER CONSUMPTION	Less than 6 VA.
TEMPERATURE:	
Temperature accuracy	\pm 1°C
Storage temperature	0 to 70°C
Ambient temperature	10 to 50°C
Setting temperature range	18 to 30°C
ON/OFF temperature different	1°C
LOAD CONTROL RELAY:	
Contact material	Ag-Alloy
Rating (resistive load)	
· <i>Normal switching capacity</i>	10 A 120VAC 250VAC / 30VDC
· <i>Max. switching power</i>	2500 VA , 300W
· <i>Max. switching voltage</i>	250VAC, 30VDC
· <i>Max. switching current</i>	10 A
Initial breakdown voltage	
· <i>Between open contacts</i>	750 VAC for 1 min.
· <i>Between contacts and coil</i>	3000 VAC for 1 min.
Life	
· <i>Mechanical life: at rated coil voltage</i>	10,000,000 ops. at no load(300ops./min)
· <i>Electrical life (Resistive load): at rated coil voltage</i>	10A250VAC 100,000ops.min.(10ops./min)