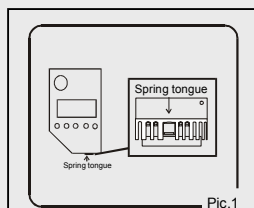
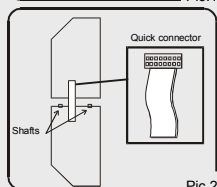


BDIR – Technician Settings

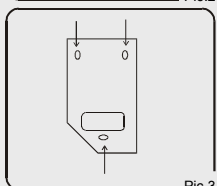
Installation Instructions



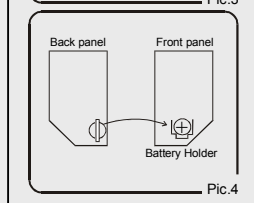
Pic.1



Pic.2



Pic.3



Pic.4

It is recommended to mount the thermostat between 1.5 & 1.8 meters from the floor where possible.

Separate the base from the cover by pressing the tongue (pic.1). Gently disconnect the quick connector between cover and base (pic.2)

Line the back panel up against the wall and drill the appropriate fixing holes (pic.3).

Insert screws so they extend approx. 3/16" (3 mm) from the wall. Align the back panel against these screws, pushing it forward, allowing it to slide downwards to lock into position.

Make electrical connections to terminals on the back panel. Refer to the "Wiring Connections" section.

Reconnect the quick connector.

Change the JUMPERS position according to the system configuration. Refer to the "Jumper Configuration" section.

Attach the cover to the base, first the two shafts and then the spring.

Connect 24Vac to the thermostat; verify that LCD display is ON.

Do not install battery before power is applied.

Remove battery from back panel by sliding it to the left and out from its white retaining clip and mount it in black holder on front panel; insert it from the top, gently pressing downwards until it snaps into place and is held under the top clip of the holder.

The '+' engraved on battery should be visible (pic. 4).

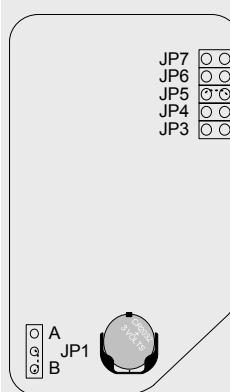
Be careful - the top clip of the battery holder is fragile.

Reassemble front and back cover.

Connect at top first then at bottom.



Jumpers Configuration



Disconnect power, remove battery and wait 5 minutes* before changing the jumpers position.

*No need to wait if the unit wasn't connected to power (1st Install).

Important: When changing the jumpers configuration, all information stored in the memory will be lost including the weekly program.

Wiring Connections

Terminal	Function	HC11	HC22	HC32	HP11	HP22	HP32
T0,T0	Not in use	-	-	-	-	-	-
T1,T1	External sensor (option)	OPT	OPT	OPT	OPT	OPT	OPT
AUX	Not in use	-	-	-	-	-	-
Y1	Compressor 1	+	+	+	+	+	+
Y2	Compressor 2	-	+	+	-	+	+
W1	Heat Element 1 / Heat Pump	H.E 1	H.E 1	H.E 1	H.P	H.P	H.P
W2	Heat Element 2	-	+	+	-	-	-
W3	Heat Element 3	-	-	+	-	-	+
G1	Fan	+	+	+	+	+	+
G2	Not in use	-	-	-	-	-	-
AL,AL	Not in use	-	-	-	-	-	-
Rc	24Vac Phase (red)	+	+	+	+	+	+
Rh	24Vac (jumped to Rc terminal)	+	+	+	+	+	+
C	24Vac Common	+	+	+	+	+	+
14,15,16	Another IR Receiver (option)	OPT	OPT	OPT	OPT	OPT	OPT

+ Connect - Not in use H.E 1 Heat element 1 H.P Heat Pump OPT Option

Temperature Sensor	JP1
Internal sensor	A Position
External sensor	B Position

Compressor Delay	JP3
4 minutes delay	OPEN
No delay (for test only !)	SHORT

Clock Mode	JP4
24 Hours	OPEN
12 Hours (AM/PM)	SHORT

Temperature Scale	JP5
Fahrenheit	OPEN
Celsius	SHORT

HC / HP Configuration	JP6	JP7
HC Electric	OPEN	OPEN
HC Oil/Gas	OPEN	SHORT
HP energized in COOL	SHORT	OPEN
HP energized in HEAT	SHORT	SHORT

Default from factory

External Sensor Connection

Installation Procedure

- Disconnect power to the thermostat.
- Move JP1 to "B" position and connect the sensor to "T1" terminals.
- Reconnect power.

Important: The sensor must be MEITAV-TEC type.

NTC Sensor: Temperature ~ Resistance Characteristics

Temperature (°C)	7.2	10.0	12.8	15.6	18.3	21.1	23.9	26.7	29.4	32.2
Resistance (KΩ)	115.8	100.9	88.1	77.1	67.7	59.6	52.5	46.4	41.2	36.6

BDIR – Owner's Manual

General

The BDIR thermostat can be controlled using an IR remote control.

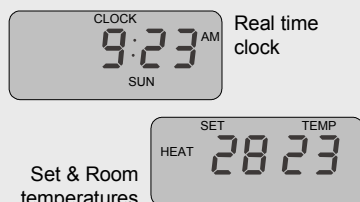
This remote control unit is Infra-red; It must be pointed at the thermostat to operate.

Every time you change a parameter in the Remote Control, you must send it to the thermostat by pressing the ON/SEND button.

When the thermostat receives the information it will beep.

LCD Screen

In normal display, the LCD alternates between a real time clock and Set & Room Temperatures.



On/Off & Send Information

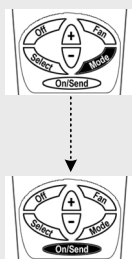
- Press the ON/SEND button to turn the thermostat ON and/or send information from the remote to the thermostat.
- Press the OFF button to turn the thermostat OFF and/or send information from the remote to the thermostat.



Mode

- Press the MODE button to switch between:

- COOL.....
- HEAT.....
- AUTO CHANGE-OVER.....
- FAN ONLY.....

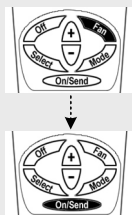


- Press the ON/SEND button to send information.

Autofan On/Off

- Press the FAN button to switch between:

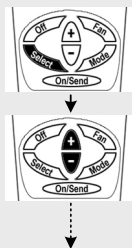
- AUTOFAN OFF.....
The fan will work continuously.
- AUTOFAN ON.....
The fan will only work when there is demand for COOL or HEAT.



- Press the ON/SEND button to send information.

Real Time Clock

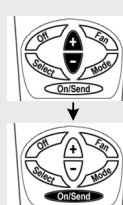
- Press the SELECT button – the words “CLOCK” & “SET” will flash.
- Press the (+) button – the hour will flash.
- Using the (+) and (-) buttons adjust the HOURS.
- Press the SELECT button again – the minutes will flash.
- Using the (+) and (-) buttons adjust the MINUTES.
- Press the SELECT button again – the day will flash.
- Using the (+) and (-) buttons adjust the DAY.
- Press the SELECT button again to exit.



Temperature Set-Point

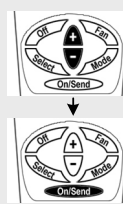
When remote control in COOL mode:

- Press the (+) or (-) buttons – “COOL” & set-point temperature will flash.
- Using the (+) or (-) buttons adjust the **set-point temperature for cool**.
- Press the ON/SEND button to send Information.



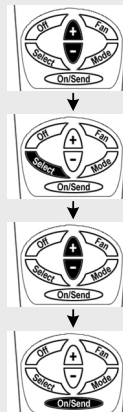
When remote control in HEAT mode:

- Press the (+) or (-) buttons – “HEAT” & set-point temperature will flash.
- Using the (+) or (-) buttons adjust the **set-point temperature for heat**.
- Press the ON/SEND button to send Information.



When remote control in AUTO CHANGE-OVER mode:

- Press the (+) or (-) buttons – “COOL” & set-point temperature will flash.
- Using the (+) or (-) buttons adjust the **set-point temperature for cool**.
- Press the SELECT button – “HEAT” & set-point temperature will flash.
- Using the (+) or (-) buttons adjust the **set-point temperature for heat**.
- Press the ON/SEND button to send Information.



The controller keeps a safety differential of at least 1 degree between set-point temperature for cool and set-point temperature for heat (heat is always less than cool).

Weekly Program

The thermostat can be programmed with up to 12 different programs: Four different programs for the weekdays (Monday to Friday); Four different programs for Saturday and four different programs for Sunday (The daily programs are numbered 1, 2, 3 & 4).

- Press & Hold the SELECT button to enter programming – the word “PROGRAM” will flash.
- Use the SELECT button here to quickly switch between Weekdays, Saturday & Sunday.
- Press the (+) button – “PROGRAM 1” & “START” will flash.
- Use the SELECT button here to quickly switch between Programs 1, 2, 3 & 4.
- Press the (+) button again – the hour will flash.
- Using the (+) and (-) buttons adjust the START TIME - HOURS for PROGRAM 1 (weekdays).
- Press the SELECT button again – the minutes will flash
- Using the (+) and (-) buttons adjust the START TIME - MINUTES for PROGRAM 1 (weekdays).
- Press the SELECT button again – “COOL” and set-point temperature will flash.
- Using the (+) and (-) buttons adjust the SET-POINT TEMPERATURE FOR COOL (11°C = OFF).
- Press the SELECT button again – “HEAT” and set-point temperature will flash.
- Using the (+) and (-) buttons adjust the SET-POINT TEMPERATURE FOR HEAT.
- Press the SELECT button again to set PROGRAM 2 and repeat the procedure.

Programming notes:

Every time the word “SEND” flashes, press the ON/SEND button to send information to the thermostat.

When the  icon flashes, use the (+) and (-) buttons to switch between:

- Activate program.....
- Deactivate program & keep it in memory.....

The display will automatically return to normal if no button is pressed for a few seconds.

To turn the thermostat OFF at a specific time, use one of the programs, adjust the time & change the set-point temperature for cool to be 11°C. The unit will switch back on at the start of the next program.