B75 DOMESTIC TEMPERATURE CONTROL

Operating Instructions

INDICATES COMPRESSOR IS RUNNING

DESIRED TEMPERATURE SETTING (SETPOINT)

Cooling

Set to

22.5 °C

FAN SPEED INDICATION

Fan   Auto

Off Timer   Cool

INDICATES TIMER IS SET TO TURN SYSTEM OFF

MODE INDICATORS

PRESS TO INCREASE ROOM TEMPERATURE

PRESS TO SET COUNTDOWN TIMER

⏳ TIMER

∧

ROOM 🌡

DISPLAY ROOM TEMPERATURE

PRESS TO SELECT FAN SPEED

✷ FAN

SET TEMP

ON

SYSTEM ON INDICATION

TURN SYSTEM ON & CHANGE MODE

FOR COMMISSIONING ONLY

ENTER

∨

OFF

PRESS TO TURN THE SYSTEM OFF

PRESS TO DECREASE ROOM TEMPERATURE

B75 Wall Control

Press "ON" repeatedly to select "AUTO" mode, "HEAT" only mode or "COOL" only mode.

"Off Timer" - If the system is ON, it turns OFF after the set period (i.e. sleep timer).
"On Timer" - If the system is OFF, it will turn ON after the set period (adjustable 30 min - 24 Hr).

Press "FAN" repeatedly to select LOW, MID, HIGH, CONT LOW, CONT MID, CONT HIGH, LOW, etc.
CONT means continuous fan, usually used in COOL mode.
With the system OFF Press "FAN" to select VENTILATION mode. Press "OFF" to stop the fan.

Room Temp Display will show "Err" for a faulty sensor.

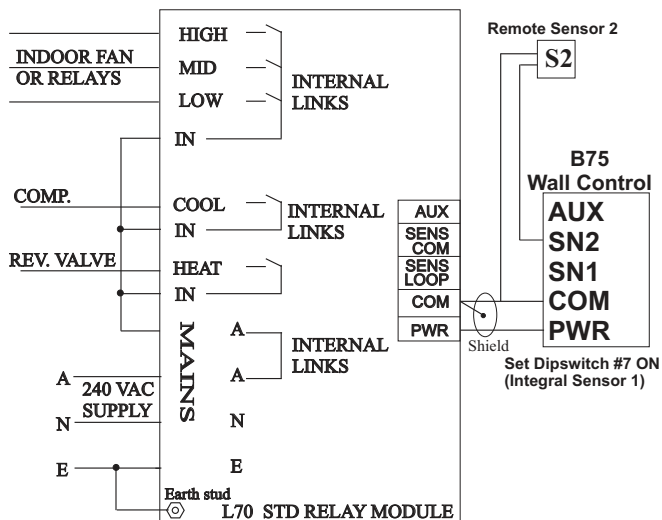| SPECIFICATIONS	
Mains Power Supply	240 Volts 50Hz
Relays: Five volt free contacts (3 Speed Fan, Heat, Cool)	16 amps Res @ 250vac
Set point default operating range (field adjustable)	16oC to 28oC
Dead band default. From Heating off to Cooling on (field adjustable)	1.5oC
Default Switching differential (field adjustable)	0.5oC
Default Fan Run-On - Electric heating only (field adjustable)	60 secs
Volt free auxiliary input supplied by others for remote start and stop	
On Board Sensor (KT103), Remote Sensors Optional	10K @ 25oC

AUSTRALIAN MADE

INSTALLER:	COMPANY:	TELEPHONE:

Single stage Heat/Cool or Single stage reverse cycle 240VAC

Single stage Heat/Cool or Single stage reverse cycle 24VAC

Wall Control and Relay Module Wiring

Standard system wiring.

B75 Wall Control

AUX	
SN2	
SN1	
COM	
PWR	

Set Dipswitch #7 ON
(Integral Sensor)

L70ST Relay Module

| AUX |
| SENS COM |
| SENS LOOP |
| COM |
| PWR |

Optional Remote On/Off and Remote Sensor.
Note: SN2 will average with SN1, if fitted.

Remote Sensor S1

Remote ON/OFF

B75 Wall Control

| AUX |
| SN2 |
| SN1 |
| COM |
| PWR |

Set Dipswitch #7 OFF
(Remote Sensor)

L70ST Relay Module

| AUX |
| SENS COM |
| SENS LOOP |
| COM |
| PWR |

DIPSWITCH SETTINGS

ON BOARD SENSOR USED FOR SN1	**INTEGRAL**	7	**REMOTE**	REMOTE SENSOR USED FOR SN1
2 STAGES OF COOLING	**2 ST COOL**	6	**2 ST HEAT**	2 STAGES OF HEATING
2 STAGES OF HEAT OR 2 STAGES OF COOL	**2 STAGE**	5	**HEAT/COOL**	1 STAGE OF HEAT AND 1 STAGE OF COOL
REVERSING VALVE ENERGISED IN COOLING	**REV COOL**	4	**REV HEAT**	REVERSING VALVE ENERGISED IN HEATING
SINGLE SPEED INDOOR FAN (HIGH OUTPUT)	**1 SPD FAN**	3	**3 SPD FAN**	THREE SPEED INDOOR FAN
CONTINUOUS INDOOR FAN	**CONT FAN**	2	**AUTO/CONT**	AUTO / CONTINUOUS FAN (SELECTABLE)
COOL ONLY AND ELECTRIC HEAT	**COOL/ELEC**	1	**HEATPUMP**	REVERSE CYCLE
	ON		**OFF**	

AUX FUNCTION:(Connect isolated contacts to AUX and COM terminals)
Remote On/Off - Close switch to turn the system on, Open switch to turn the system off (Wall Control still operates normally).

COMMISSIONING AND SERVICE KEYS   (PRESS ∧ or ∨ to ADJUST SETTINGS WITHIN THE MENU), (PRESS **ENTER** to ACCEPT SETTING), (PRESS **FAN** to EXIT MENU)

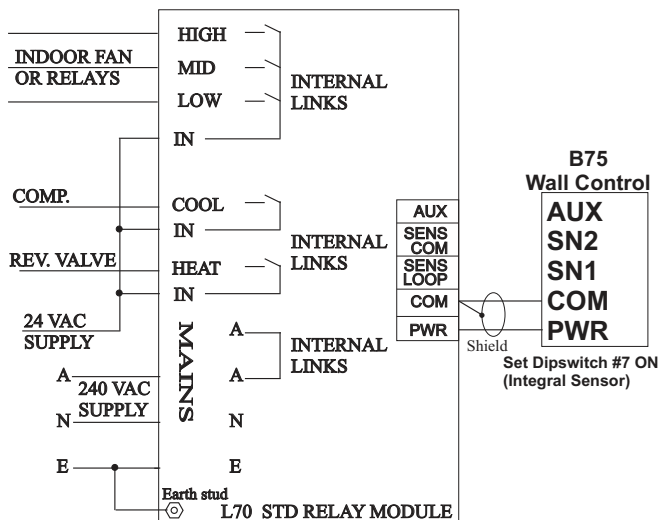| MENU FUNCTIONS	HOLD	PRESS & RELEASE	PRESS & RELEASE	RELEASE
RESET to FACTORY DEFAULT SETTINGS	ENTER	OFF	∨	ENTER
CANCEL TIMERS (fan run-on, anti-cycle, rev hold)	ENTER	OFF	ON	ENTER
SET DIFFERENTIALS, TEMPERATURE CALIBRATION (SN1)	ENTER	∨		ENTER
SET TIMERS (Compressor Anti-Cycle, Fan-Runon)	ENTER	∧		ENTER
SETPOINT LOWER LIMIT (Default 16, Minimum 12)		ENTER	∨	
SETPOINT UPPER LIMIT (Default 28, Maximum 32)		ENTER	∧	
SET IDLE BACKLIGHT LEVEL - OFF OR LOW ILLUMINATION	ENTER	ROOM		ENTER

Typical wiring connections. Check Unit wiring diagrams and DIP Switch selection on Wall Control Pad

Reverse cycle air conditioning system. 2 Sensors will average.
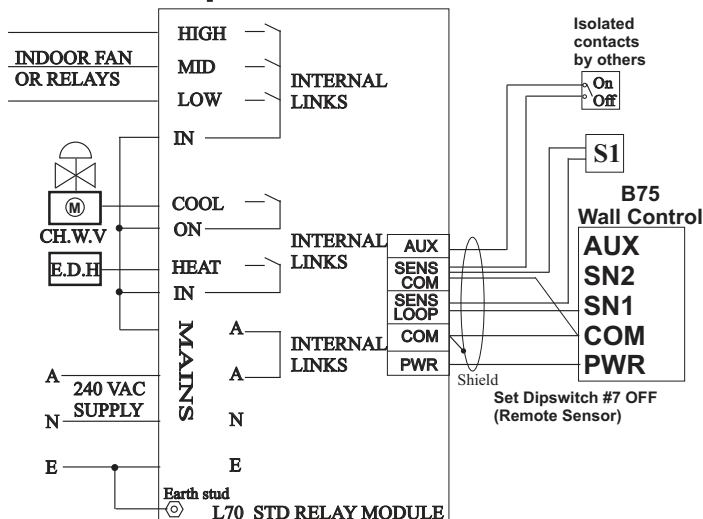
INDOOR FAN OR RELAYS

HIGH
MID
LOW
IN
INTERNAL LINKS

COMP.

COOL
IN
INTERNAL LINKS

REV. VALVE

HEAT
IN

A
A
INTERNAL LINKS

A
240 VAC SUPPLY
N

E

MAINS

N
E
Earth stud
L70 STD RELAY MODULE

Remote Sensor 2
S2

B75 Wall Control
AUX
SN2
SN1
COM
PWR

AUX
SENS COM
SENS LOOP
COM
PWR

Shield
Set Dipswitch #7 ON (Integral Sensor 1)

Reverse cycle air conditioning system. 24 vac control system

INDOOR FAN OR RELAYS

HIGH
MID
LOW
IN
INTERNAL LINKS

COMP.

COOL
IN
INTERNAL LINKS

REV. VALVE

HEAT
IN

24 VAC SUPPLY

A
A
INTERNAL LINKS

A
240 VAC SUPPLY
N

E

MAINS

N
E
Earth stud
L70 STD RELAY MODULE

B75 Wall Control
AUX
SN2
SN1
COM
PWR

AUX
SENS COM
SENS LOOP
COM
PWR

Shield
Set Dipswitch #7 ON (Integral Sensor)

Reverse cycle air conditioning system. Remote sensor.

INDOOR FAN OR RELAYS

HIGH
MID
LOW
IN
INTERNAL LINKS

COMP.

COOL
IN
INTERNAL LINKS

REV. VALVE

HEAT
IN

A
A
INTERNAL LINKS

A
240 VAC SUPPLY
N

E

MAINS

N
E
Earth stud
L70 STD RELAY MODULE

S1

B75 Wall Control
AUX
SN2
SN1
COM
PWR

AUX
SENS COM
SENS LOOP
COM
PWR

Shield
Set Dipswitch #7 OFF (Remote Sensor)
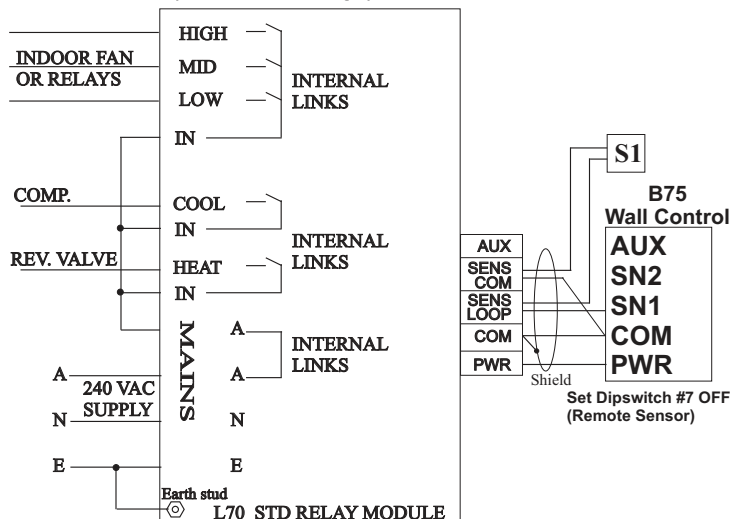
Chilled water valve and electric duct heater. Remote stop/start and remote sensor

INDOOR FAN OR RELAYS

HIGH
MID
LOW
IN
INTERNAL LINKS

CH.W.V
M

COOL
ON
INTERNAL LINKS

E.D.H

HEAT
IN

A
A
INTERNAL LINKS

A
240 VAC SUPPLY
N

E

MAINS

N
E
Earth stud
L70 STD RELAY MODULE

Isolated contacts by others
On
Off

S1

B75 Wall Control
AUX
SN2
SN1
COM
PWR

AUX
SENS COM
SENS LOOP
COM
PWR

Shield
Set Dipswitch #7 OFF (Remote Sensor)

Two stage cooling. Single speed fan. Cool/Elec or Heatpump

INDOOR FAN OR RELAY

HIGH
MID
LOW
IN
INTERNAL LINKS

COMP. 1

COOL
IN
INTERNAL LINKS

COMP 2

HEAT
IN

A
A
INTERNAL LINKS

A
240 VAC SUPPLY
N

E

MAINS

N
E
Earth stud
L70 STD RELAY MODULE

B75 Wall Control
AUX
SN2
SN1
COM
PWR

AUX
SENS COM
SENS LOOP
COM
PWR

Shield
Set Dipswitch #7 ON (Integral Sensor)
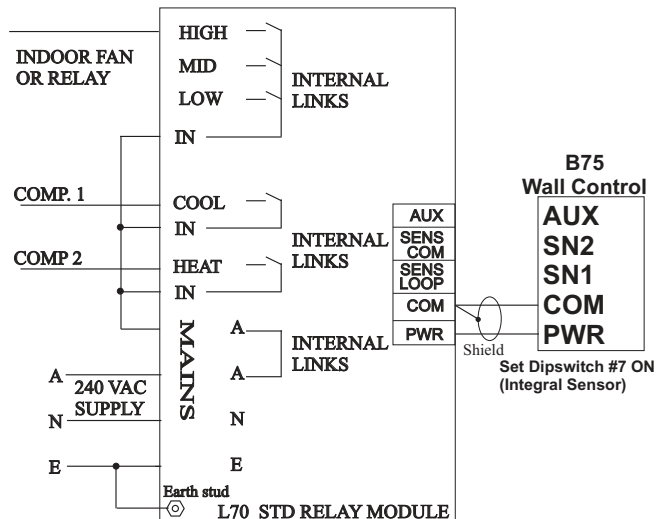
Two stage heating. 3 speed fan. Cool/Elec or Heatpump

INDOOR FAN OR RELAYS

HIGH
MID
LOW
IN
INTERNAL LINKS

HEAT 1

COOL
IN
INTERNAL LINKS

HEAT 2

HEAT
IN

A
A
INTERNAL LINKS

A
240 VAC SUPPLY
N

E

MAINS

N
E
Earth stud
L70 STD RELAY MODULE

B75 Wall Control
AUX
SN2
SN1
COM
PWR

AUX
SENS COM
SENS LOOP
COM
PWR

Shield
Set Dipswitch #7 ON (Integral Sensor)