

Smart Temp Australia



Intesis Adapter Kit Manual

To suite

SMT-775 Inspire Touch

and

SMT – 850 Halo

Ver 1.3

Smart Temp use third party adapters made by Intesis [™]. These adapters accept standard ModBus heating and cooling (etc) commands sent from Smart Temp devices and convert these ModBus commands to the language recognised by the Inverter Air Conditioner.

The Smart Temp SMT-775 Inspire Touch and the Smart Temp SMT-850 are also able to control many brands of Inverter style Air Conditioning systems as well as traditionally wired air conditioning systems by using a third-party adapter module.

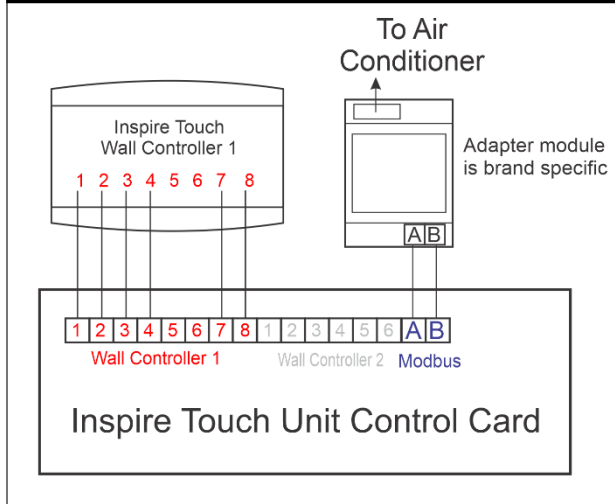
Smart Temp can supply a Smart Temp manufactured adapter module for Daikin™ branded air conditioning systems that use the P1 P2 terminals. Smart Temp also supports the Intesis™ branded adapter module suitable for

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All brands of Intesis™ adapters connect to the Smart Temp SMT-775 Inspire and the SMT-850 Halo product in an identical manner. The Smart Temp manufactured Daikin adapter will be supplied with its own manual.

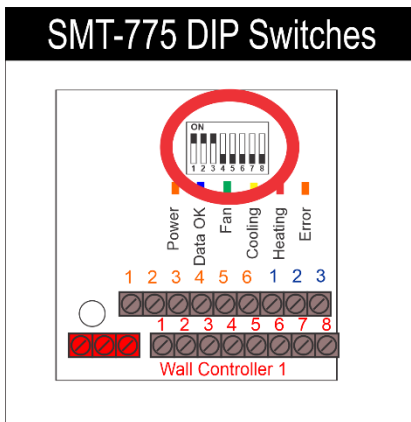
The following pages will provide brand specific wiring and set up information.

SMT-775 Inspire Touch Wiring Overview



On the SMT-775 Inspire Touch you must set DIP 1 2 3 to on.
(Dip 4 ~8 off).

SMT-775 DIP Switches

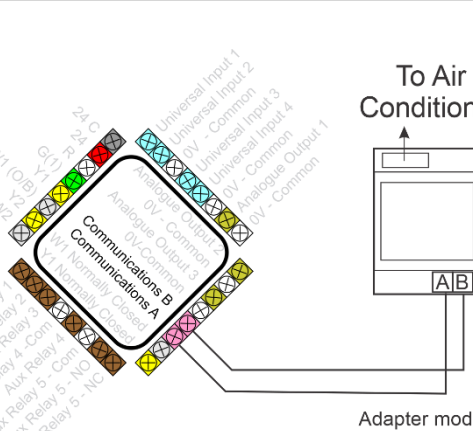


Enter the Inspire Touch installer menu (PIN 1234) and navigate to Modbus Tab (Tap bottom right “Next Page” arrow twice). Tap the Modbus Tab at the top of the screen. Set Modbus mode to “IntesisBox”. Set Address is 1, Baud Rate is 9600. (Parity and stop bits are locked)

Set Decidegree (x10) to the value given in the following diagrams for

the adapter you are using.

SMT-850 Halo Wiring Overview



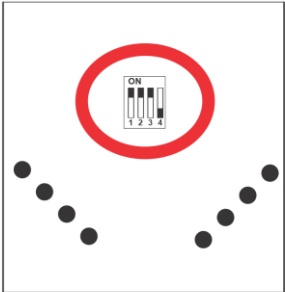
The diagram illustrates the wiring connections for the SMT-850 Halo unit. The unit is represented as a central diamond shape with various terminals labeled around its perimeter. The connections are as follows:

- Top:** Universal Input 1, Universal Input 2, Universal Input 3, Universal Input 4, 0V - Common, Analogue Output 1, Analogue Output 2, Analogue Output 3, Analogue Output 4, 0V - Common.
- Right:** 24V, 0V - Common, 0V - Common, 0V - Common, 0V - Common, 0V - Common, 0V - Common, 0V - Common.
- Bottom:** Analogue Output 1, Analogue Output 2, Analogue Output 3, Analogue Output 4, 0V - Common, 0V - Common, 0V - Common, 0V - Common.
- Left:** W1 (0V), W2 (0V), W3 (0V), W4 (0V), W5 (0V), W6 (0V), W7 (0V), W8 (0V).
- Internal Labels:** Communications A, Communications B, 0V - Common, 0V - Common, 0V - Common, 0V - Common, 0V - Common, 0V - Common.
- Other Labels:** 24V, 0V - Common, 0V - Common, 0V - Common, 0V - Common, 0V - Common, 0V - Common, 0V - Common.

The unit is connected to an **Adapter module** (labeled A/B) which is then connected to an **Air Conditioner**. The adapter module is noted as being brand specific.

Switches located on the PCB between the 32 connector pins in the centre of the thermostat electronic PCB.

SMT-850 Halo DIP Switches

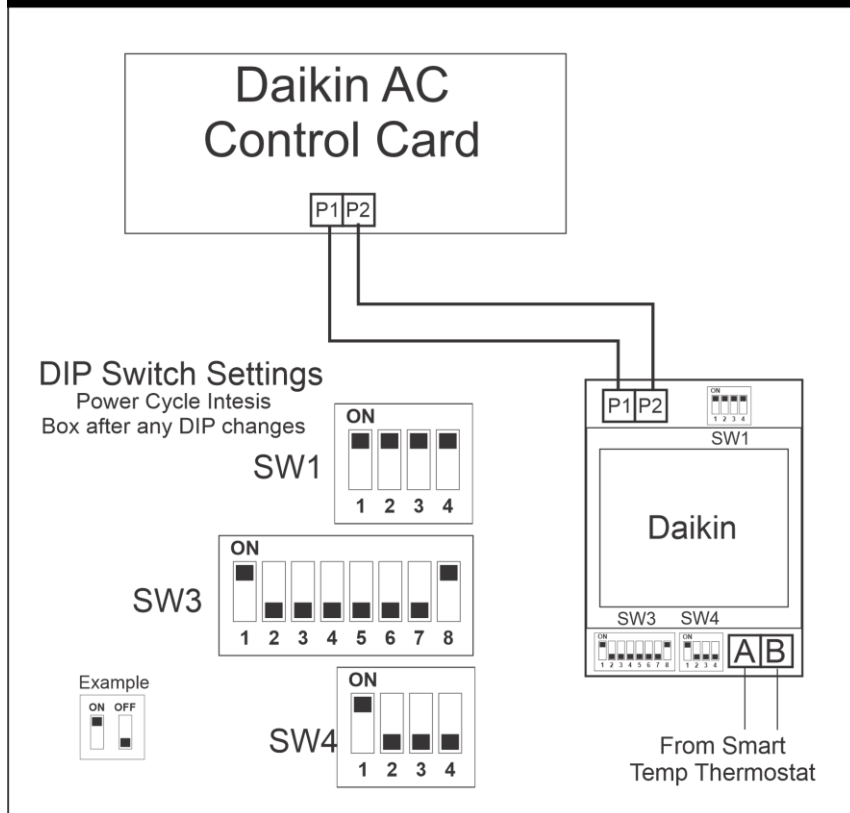


The diagram shows a top-down view of a square PCB layout. In the center, there is a red circle containing a 4-pin DIP switch symbol. The switch is labeled 'ON' at the top and has pins numbered 1, 2, 3, and 4 from left to right. Pin 1 is the leftmost, pin 2 is the second from the left, pin 3 is the third from the left, and pin 4 is the rightmost. The switch is currently in the 'ON' position, indicated by the black bar on the right side of the switch symbol. Surrounding the central switch are eight black circular pads arranged in two rows of four. The top row of four pads is positioned above the central switch, and the bottom row of four pads is positioned below it. The pads are arranged in a slightly curved, symmetrical pattern relative to the central switch.

Enter the Halo installer menu (PIN 8815) and tap the Modbus Tab at the left of the screen. Set Modbus mode to “IntesisBox”. Set Adress is 1, Baud Rate is 9600. (Parity and stop bits are locked).

Set Decidegree (x10) to the value given in the following diagrams for the adapter you are using.

Daikin P1 P2

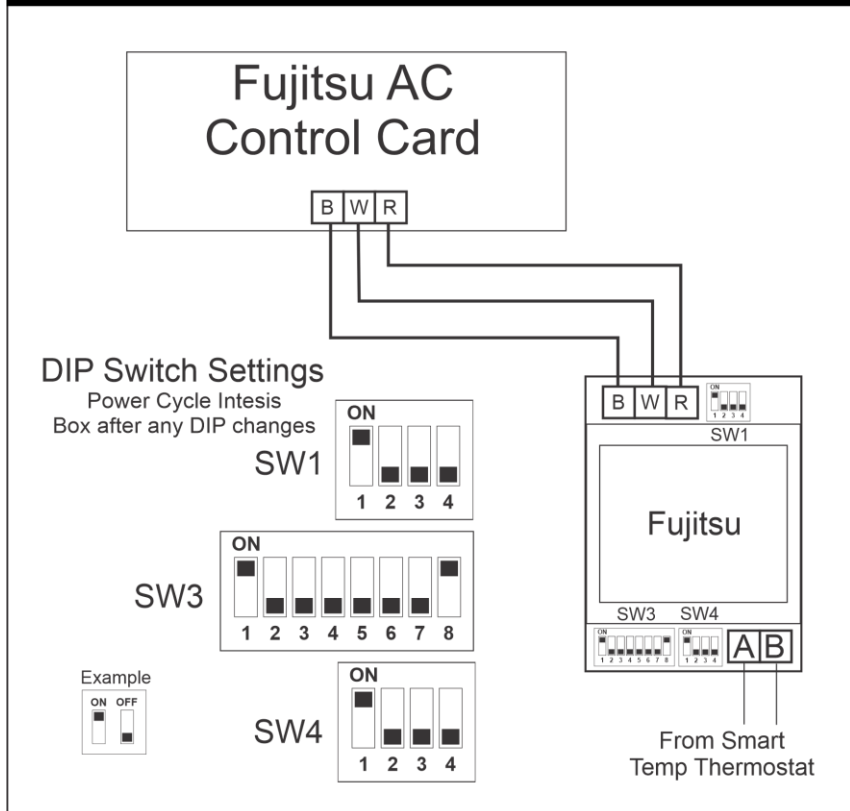


In Daikin Controller - Using the Daikin wall controller, enter the installer menu and set Mode 20 (remote sensor value), go to code 2 and set it to either 01 or 03 (Use Remote Sensor only). Power cycle the Intesis box after any DIP switch setting changes.

In Inspire Settings - Enter installer menu (PIN 1234) and navigate to Modbus Tab (Tap bottom right "Next Page" arrow twice). Set Modbus mode to "IntesisBox". Set Address is 1, Baud Rate is 9600. Set Decidegree (x10) = YES

Inspire DIP 1, 2 & 3 should be on. (4 to 8 off)

Fujitsu B W R

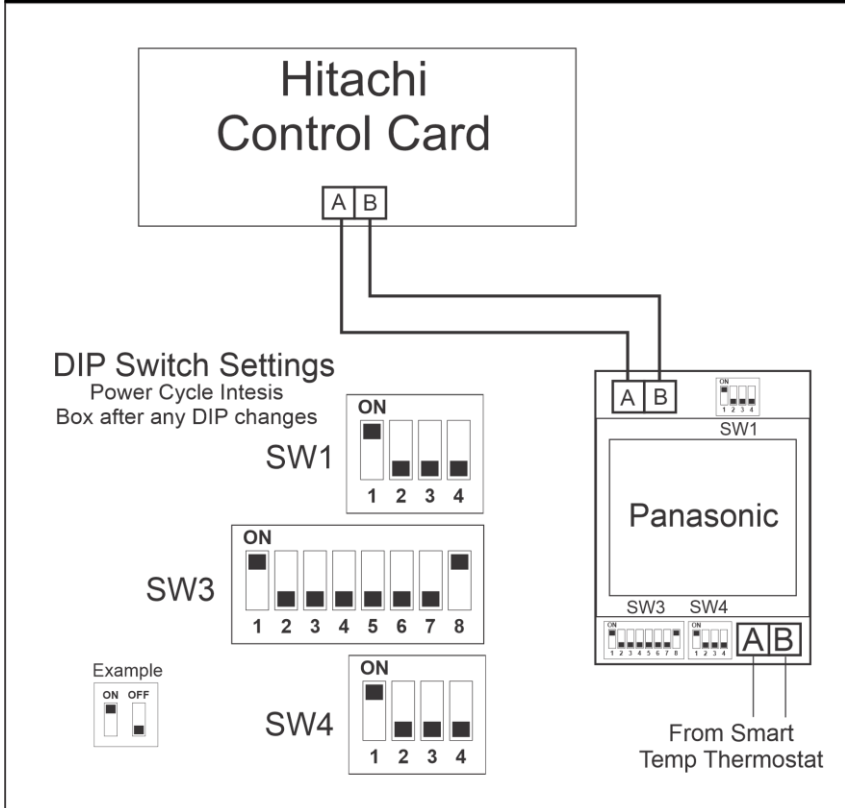


In Fujitsu Controller - Using the Fujitsu wall controller, enter the installer menu and navigate to function 42 (remote sensor value) and set it to 01 (Use Remote Sensor only).

In Inspire Settings - Enter installer menu (PIN 1234) and navigate to Modbus Tab (Tap bottom right "Next Page" arrow twice). Set Modbus mode to "IntesisBox". Set Address is 1, Baud Rate is 9600. Set Decidegree (x10) = YES

Inspire DIP 1, 2 & 3 should be on. (4 to 8 off)

Hitachi AB

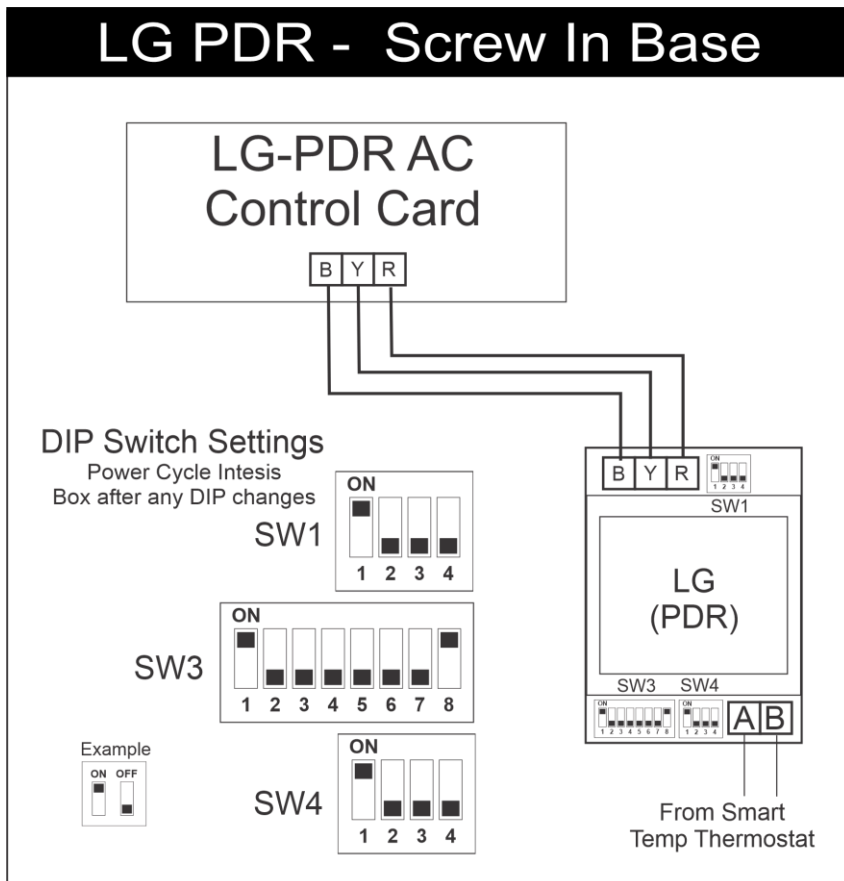


In Hitachi Controller - Using the Hitachi wall controller, enter the test Run menu and navigate to thermistor selection option and select “Thermistor of remote control” is used.

In Inspire Settings - Enter installer menu (PIN 1234) and navigate to Modbus Tab (Tap bottom right “Next Page” arrow twice). Set Modbus mode to “IntesisBox”. Set Address is 1, Baud Rate is 9600. Set Decidegree (x10) = YES

Inspire DIP 1, 2 & 3 should be on. (4 to 8 off)

LG PDR - Screw In Base

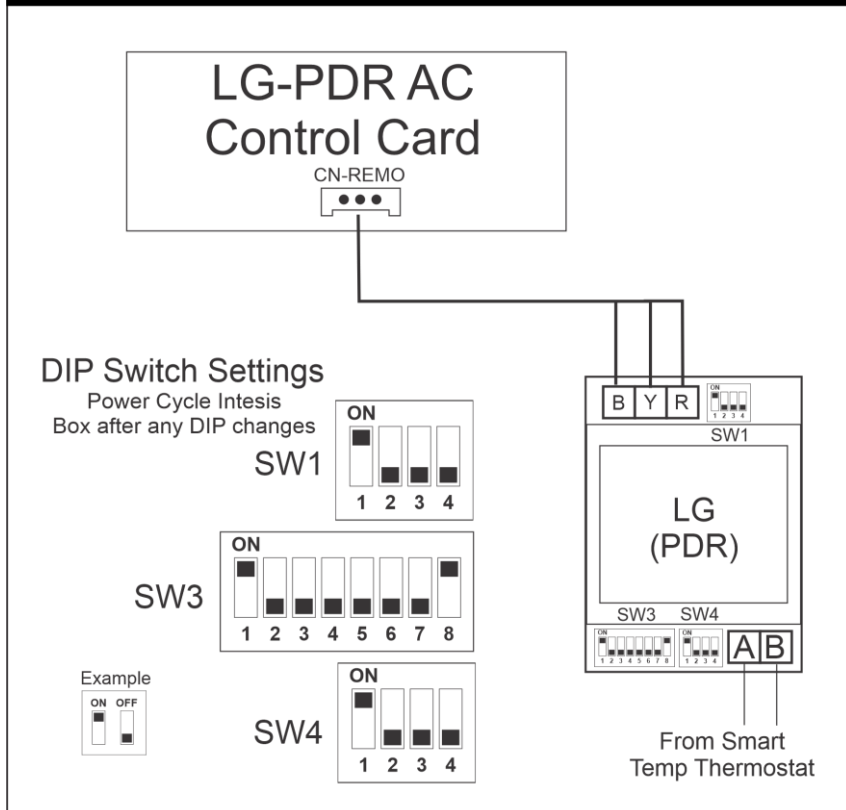


In LG Controller - Using the LG wall controller, enter the sub-Function menu and navigate to "Function Settings". Set thermistor mode to "Remote Controller Temperature Sensor". REMO.

In Inspire Settings - Enter installer menu (PIN 1234) and navigate to Modbus Tab (Tap bottom right "Next Page" arrow twice). Set Modbus mode to "IntesisBox". Set Address is 1, Baud Rate is 9600. Set Decidegree (x10) = YES.

Inspire DIP 1, 2 & 3 should be on. (4 to 8 off)

LG PDR - Plug In Base

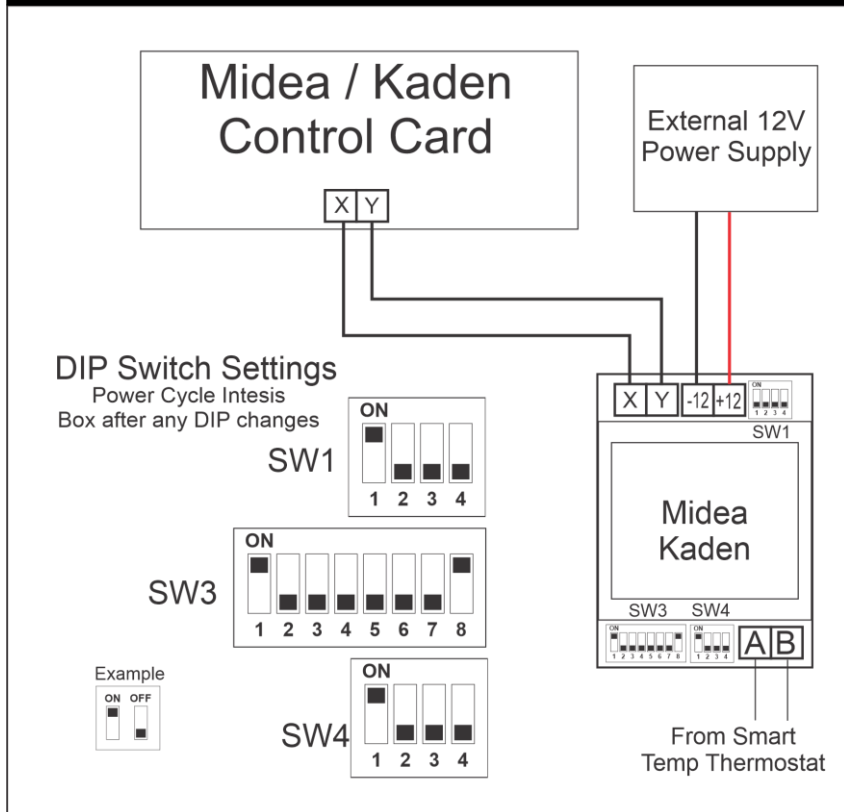


In LG Controller - Using the LG wall controller, enter the Installer menu and navigate to Code 04. (Room Temperature Sensor). Set the value to 01. (Remote Control Temperature Sensor).

In Inspire Settings - Enter installer menu (PIN 1234) and navigate to Modbus Tab (Tap bottom right "Next Page" arrow twice). Set Modbus mode to "IntesisBox". Set Address is 1, Baud Rate is 9600. Set Decidegree (x10) = YES.

Inspire DIP 1, 2 & 3 should be on. (4 to 8 off)

Midea / Kaden

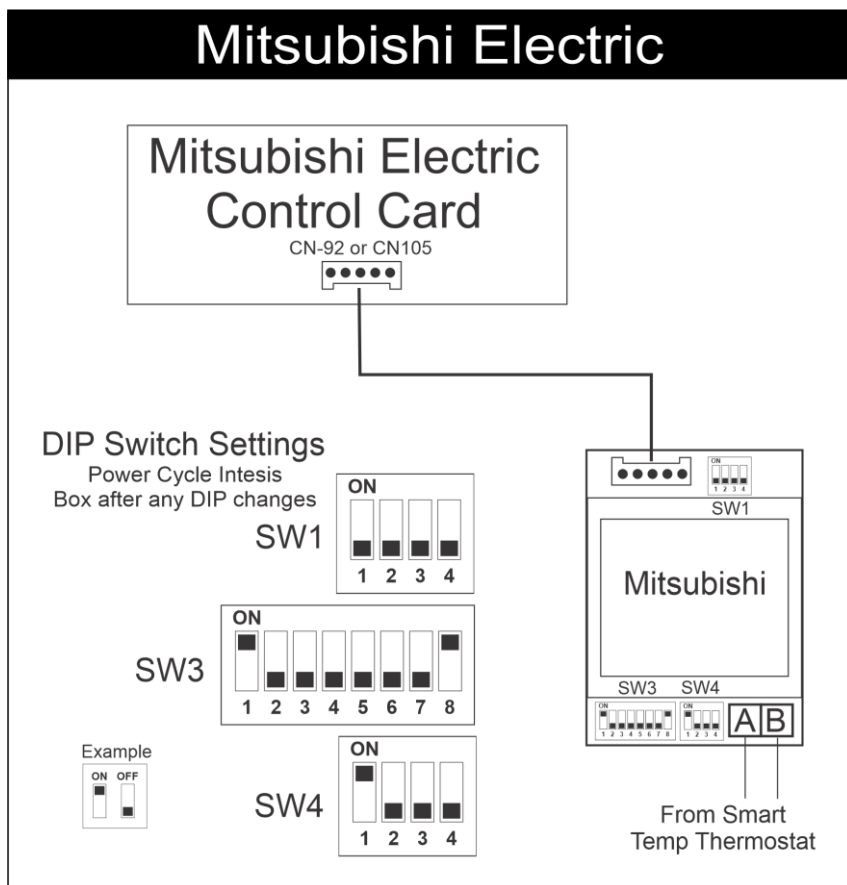


In Midea Controller - Using the Midea wall controller, enter the Installer menu and navigate Room Temperature Sensor location. Set the value to Remote Control Temperature Sensor.

In Inspire Settings - Enter installer menu (PIN 1234) and navigate to Modbus Tab (Tap bottom right "Next Page" arrow twice). Set Modbus mode to "IntesisBox". Set Address is 1, Baud Rate is 9600. Set Deci degree (x10) = YES.

Inspire DIP 1, 2 & 3 should be on. (4 to 8 off)

Mitsubishi Electric

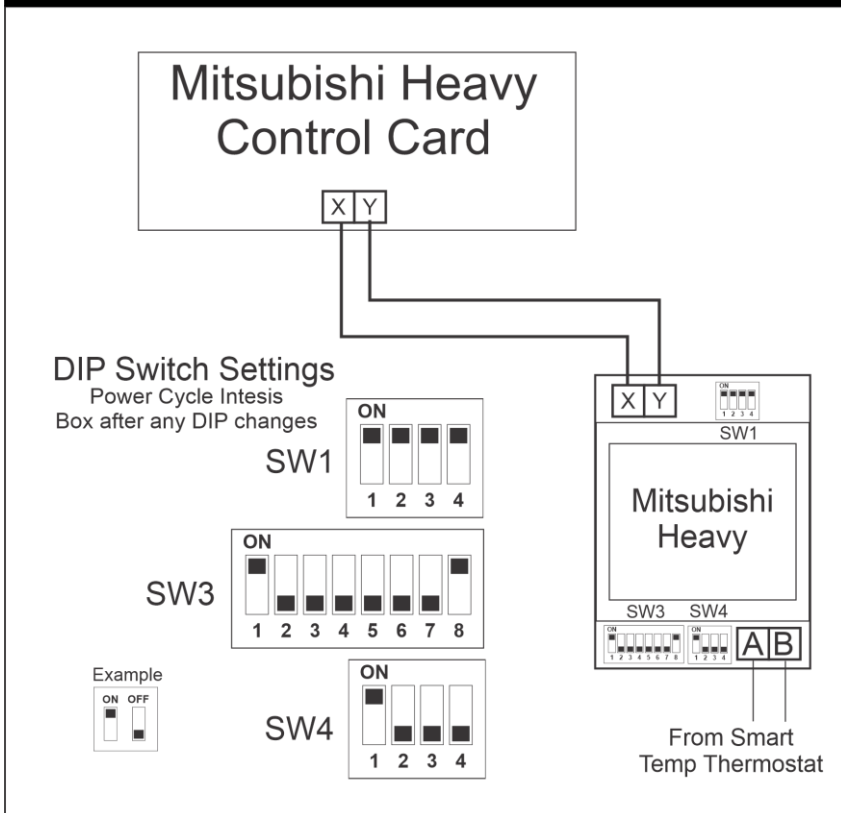


In Mitsubishi Electric Controller - Using the Mitsubishi Electric wall controller, enter the Installer menu and navigate to mode 02. (Room Temperature Sensor). Set the value to 02. (Thermistor on indoor unit). New Mitsubishi #1 Sw 1 On & #8 Sw3 on.

In Inspire Settings - Enter installer menu (PIN 1234) and navigate to Modbus Tab (Tap bottom right "Next Page" arrow twice). Set Modbus mode to "IntesisBox". Set Address is 1, Baud Rate is 9600. Set Decidegree (x10) = NO.

Inspire DIP 1, 2 & 3 should be on. (4 to 8 off)

Mitsubishi Heavy RC-EX3

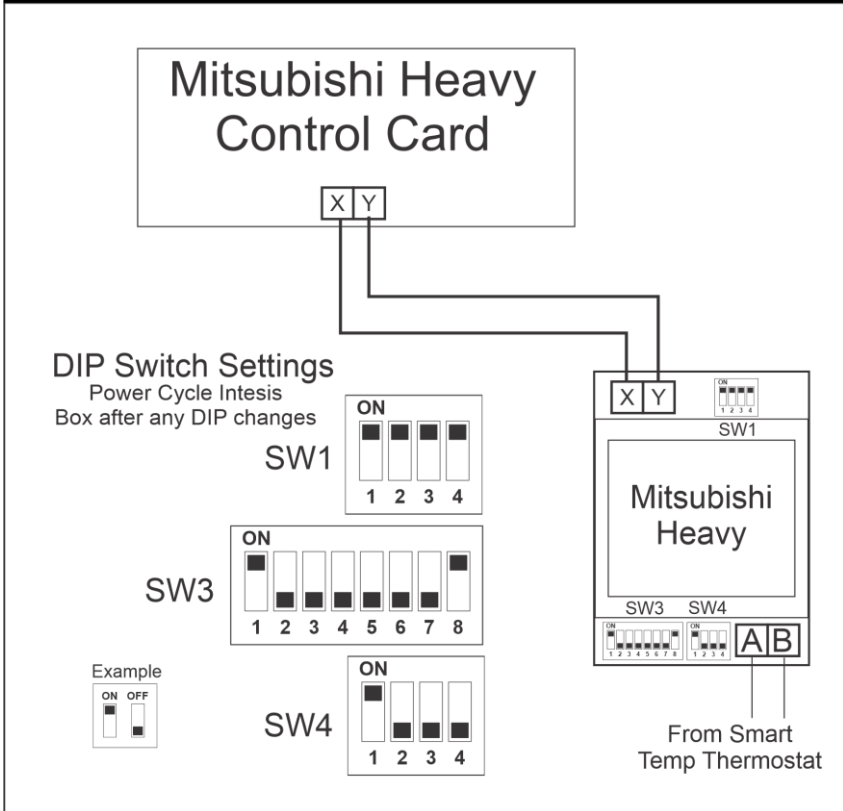


In Mitsubishi Heavy Controller - Using the Mitsubishi controller, enter the Installer menu and navigate to R/C Function settings. In R/C function settings navigate to R/C settings. In R/C settings select Enable Option. (Enable wall control sensor to be used).

In Inspire Settings - Enter installer menu (PIN 1234) and navigate to Modbus Tab (Tap bottom right "Next Page" arrow twice). Set Modbus mode to "IntesisBox". Set Address is 1, Baud Rate is 9600. Set Decidegree (x10) = YES.

Inspire DIP 1, 2 & 3 should be on. (4 to 8 off)

Mitsubishi Heavy RC-E5

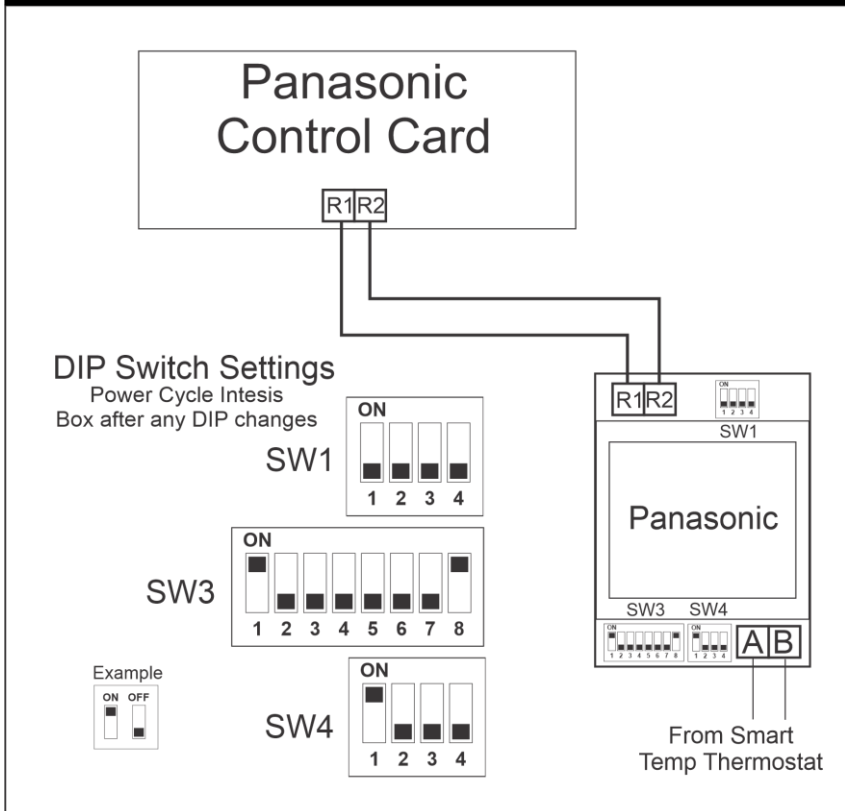


In Mitsubishi Heavy Controller - Using the Mitsubishi RC-E5 controller, enter the Installer menu and navigate to function 09, (Set Sensor). Choose "Sensor ON". (This will enable the wall control sensor to be used).

In Inspire Settings - Enter installer menu (PIN 1234) and navigate to Modbus Tab (Tap bottom right "Next Page" arrow twice). Set Modbus mode to "IntesisBox". Set Address is 1, Baud Rate is 9600. Set Decidegree (x10) = YES.

Inspire DIP 1, 2 & 3 should be on. (4 to 8 off)

Panasonic CZ-RTC4

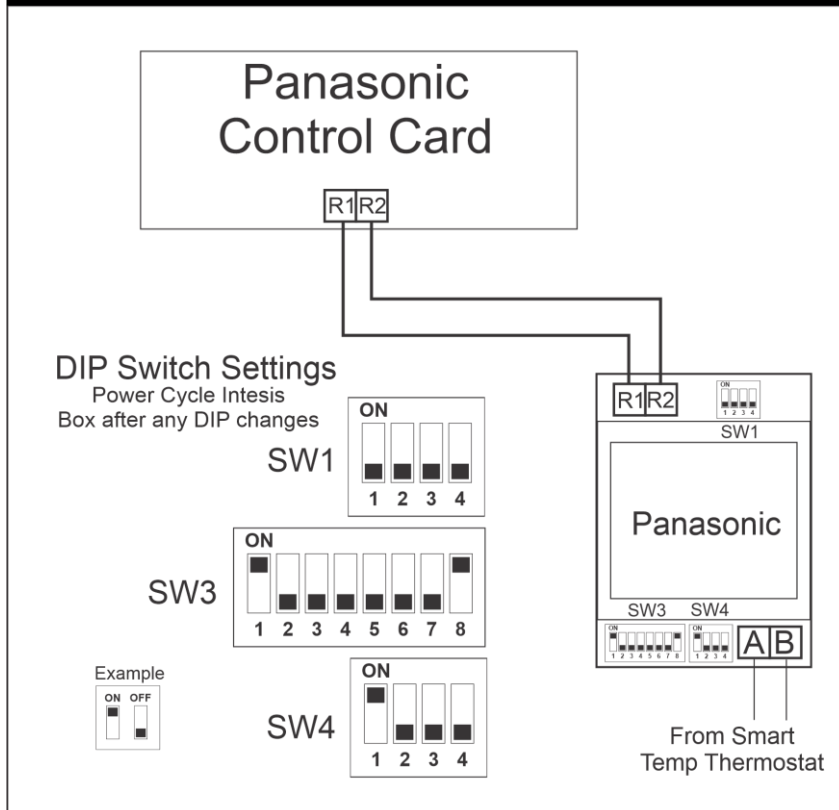


In Panasonic CZ-RTC4 Controller – In the indoor unit settings menu, set item 32 to 0000. (This will enable the wall control sensor to be used).

In Inspire Settings - Enter installer menu (PIN 1234) and navigate to Modbus Tab (Tap bottom right “Next Page” arrow twice). Set Modbus mode to “IntesisBox”. Set Address is 1, Baud Rate is 9600. Set Decidegree (x10) = NO.

Inspire DIP 1, 2 & 3 should be on. (4 to 8 off)

Panasonic CZ-RTC5

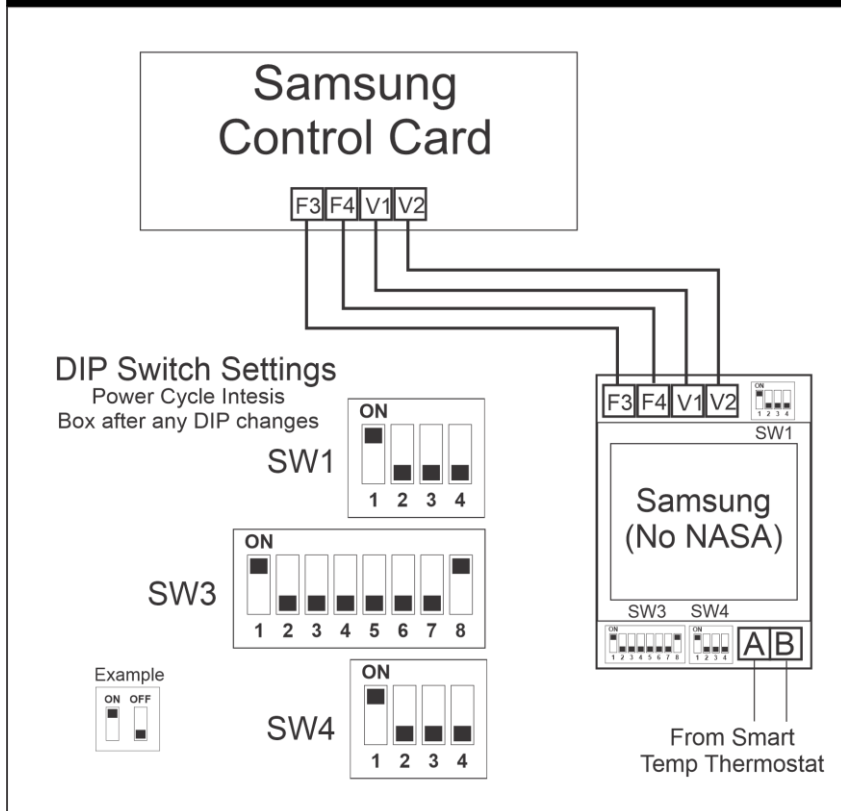


In Panasonic CZ-RTC5 Controller – In the indoor unit maintenance settings, navigate to RC setting menu. Select item 32 and set its value to 0000. (This will enable the wall control sensor to be used).

In Inspire Settings - Enter installer menu (PIN 1234) and navigate to Modbus Tab (Tap bottom right “Next Page” arrow twice). Set Modbus mode to “IntesisBox”. Set Address is 1, Baud Rate is 9600. Set Decidegree (x10) = NO.

Inspire DIP 1, 2 & 3 should be on. (4 to 8 off)

Samsung (No NASA)

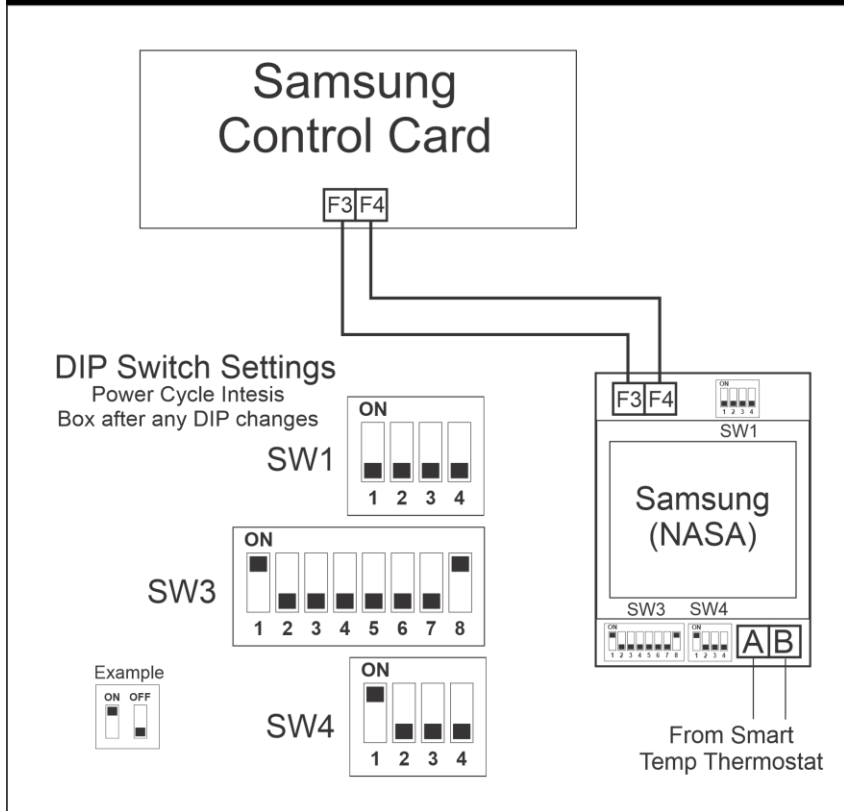


In Samsung MWR-WE Controller – Navigate to menu item 1 on the wall controller. In Menu item 1, go to sub menu 2. In sub menu 2 go to temperature sensor selection. Set the value of 1 - this will use the temperature sensor in the wall controller.

In Inspire Settings - Enter installer menu (PIN 1234) and navigate to Modbus Tab (Tap bottom right “Next Page” arrow twice). Set Modbus mode to “IntesisBox”. Set Address is 1, Baud Rate is 9600. Set Decidegree (x10) = Yes.

Inspire DIP 1, 2 & 3 should be on. (4 to 8 off)

Samsung (NASA)

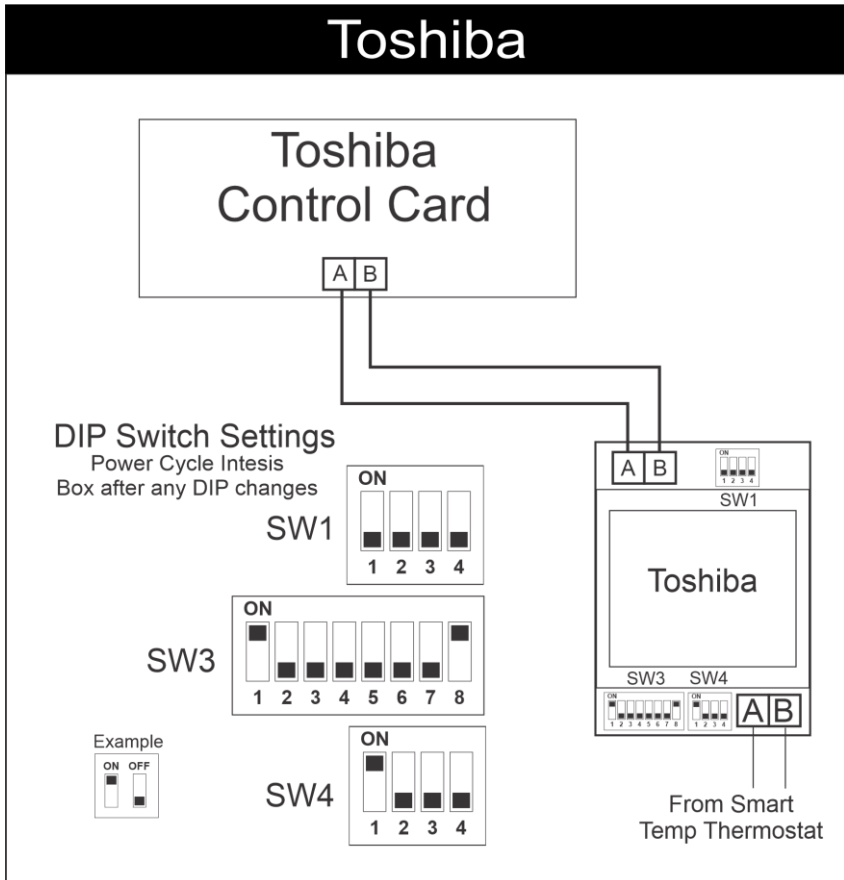


In Samsung MWR-WG Controller – Navigate to general menu, then to indoor unit option. In indoor unit option menu navigate to temperature sensor selection. Select “wired remote Controller” - use the temperature sensor in the wall controller.

In Inspire Settings - Enter installer menu (PIN 1234) and navigate to Modbus Tab (Tap bottom right “Next Page” arrow twice). Set Modbus mode to “IntesisBox”. Set Address is 1, Baud Rate is 9600. Set Decidegree (x10) = NO.

Inspire DIP 1, 2 & 3 should be on. (4 to 8 off)

Toshiba



In Toshiba Controller – Navigate to Field settings, then to DN Settings. In DN settings navigate to DN 32 and set this value as 0000. -Use the indoor unit sensor.

In Inspire Settings - Enter installer menu (PIN 1234) and navigate to Modbus Tab (Tap bottom right “Next Page” arrow twice). Set Modbus mode to “IntesisBox”. Set Address is 1, Baud Rate is 9600. Set Decidegree (x10) = NO.

Inspire DIP 1, 2 & 3 should be on. (4 to 8 off)

Tech Support

For technical support please email support@smarttemp.com.au or telephone +613 97630094.

Diligence

All care has been taken in the preparation of this document. Smart Temp however will not be held liable for damages for errors or omissions in this document. It is up to the installer to ensure that the equipment is installed in accordance with the respective manufacturer requirements and recommendations.

If you notice errors or have find this manual difficult to follow. Or you feel is misleading or inaccurate please send an email to admin@smarttemp.com.au and detail your concerns so that we may correct any issues found promptly.

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