

SMT - I/O.

Modbus Interface Module

Making Life Comfortable

Due to the ongoing commitment to support our customer base and to provide new ways to provide cost effective air conditioning control, Smart Temp has produced the SMT-I/O board, a low cost yet powerful Modbus interface module designed to provide additional inputs and outputs to any Modbus networking system.

The SMT - I/O is a perfect companion product to the many other Smart Temp Modbus devices such as the SMT-770 Modbus thermostat, the SMT-EC-02 Modbus economy control module and the 770-HMI Modbus web interface master controller.

Further, as this product has been built by Smart Temp as a companion product for all other Smart Temp Modbus devices you can rest assured it's a perfect no fuss plug & play device that is fully compatible with all other Smart Temp temperature sensors and other devices. This means adding a temperature sensor to the building management system for alarming or system feedback etc is as easy as simply connecting it.

The SMT-I/O has a comprehensive Modbus objects list whereby all relay actions can be controlled and viewed by any Modbus Master device such as the 770-HMI, the Inputs can be configured to accept either a 10K NTC type II sensor or as a digital (On/Off) input.

By using the SMT-I/O ten as well as other Smart Temp Modbus devices, a building automation system can be quickly, inexpensively and easily built up to control all facets of building automation with particular emphases on occupant comfort. Depending on the capabilities of the Modbus Master, the SMT I/O ten can be used to control zone dampers based on space vs. the set temperature of the thermostat, control extraction fans based on measured levels of car park carbon monoxide, toilet exhaust fans, security lighting or building access control.

The very best part of the SMT- I/O ten is by far the price. Smart Temp has produced a high quality product to meet the demands of the HVAC industry. A simple yet powerful and inexpensive solution for the added control required in MODbus systems.

Call Smart Temp now for additional information on this I/O card and the many other MODbus devices available from Smart Temp.

Features

10 - Volt free relays - Change over contacts - 24V @ 5A

Each relay fitted with an On/ Off / Auto switch
Set Default (Loss of Communication) state for relays.

8 - Universal Inputs

0-10V
10K type II NTC thermistor (Temperature Sensor)
Digital (On-Off)

2 - 0-10Volt outputs.

Linear or PWM outputs 0.01v resolution.

Modbus RTU Communications

4.8 / 9.6 / 19.2 Baud
MODbus Address - select 32 to 48 via DIP switch

24V Powered

Reliable and safe power supply.

LED Status Indication and Diagnostics

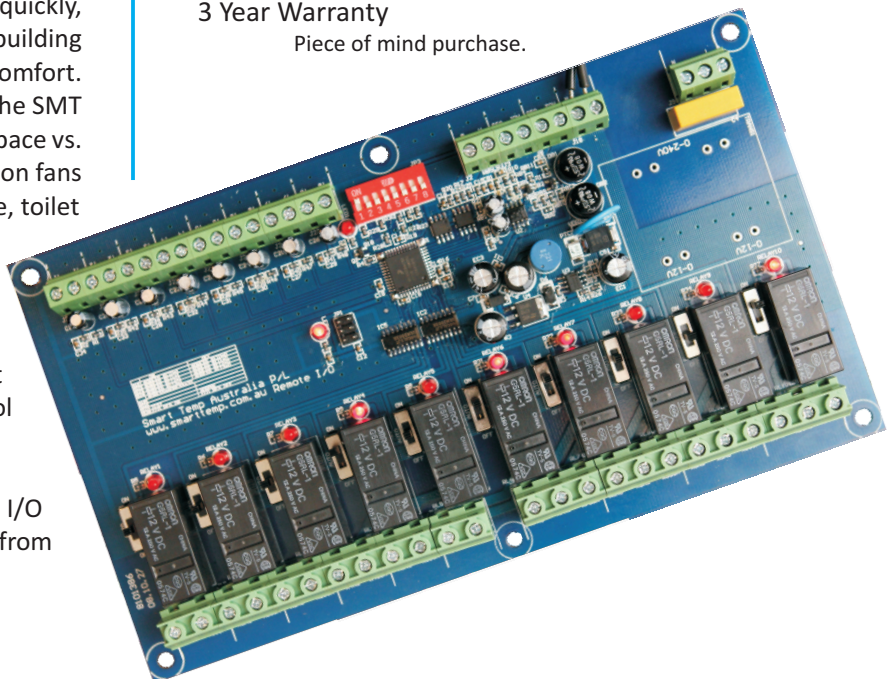
Simple setup and diagnostics.

Supplied in Robust Aluminium Enclosure.

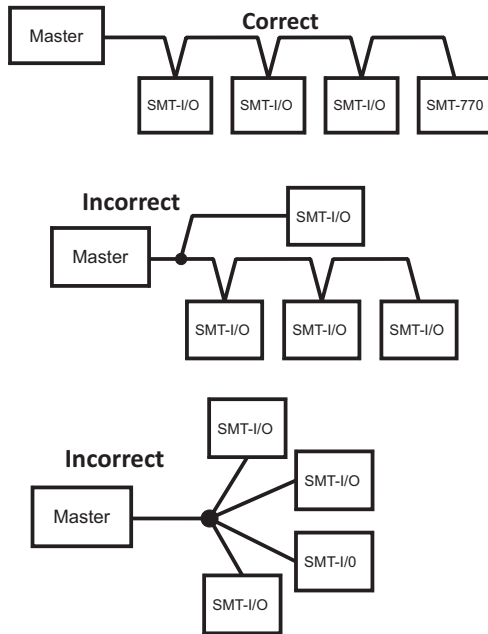
Built tough for long term reliability.

3 Year Warranty

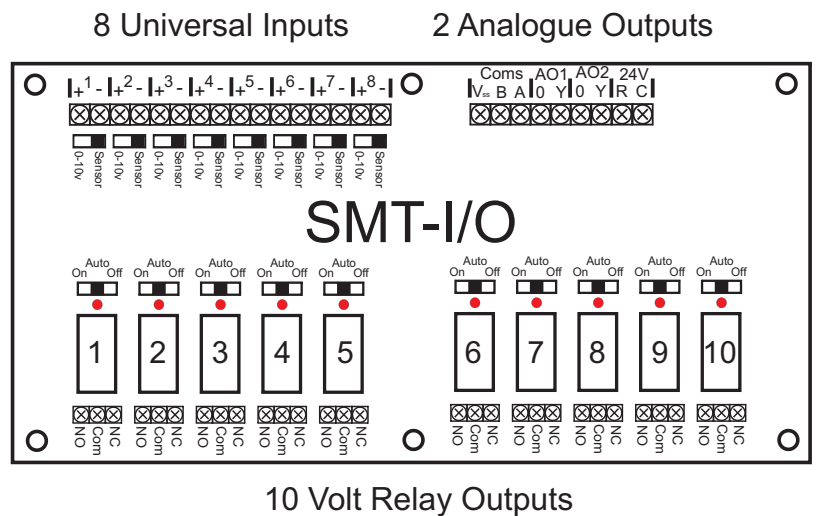
Piece of mind purchase.



Wiring Overview

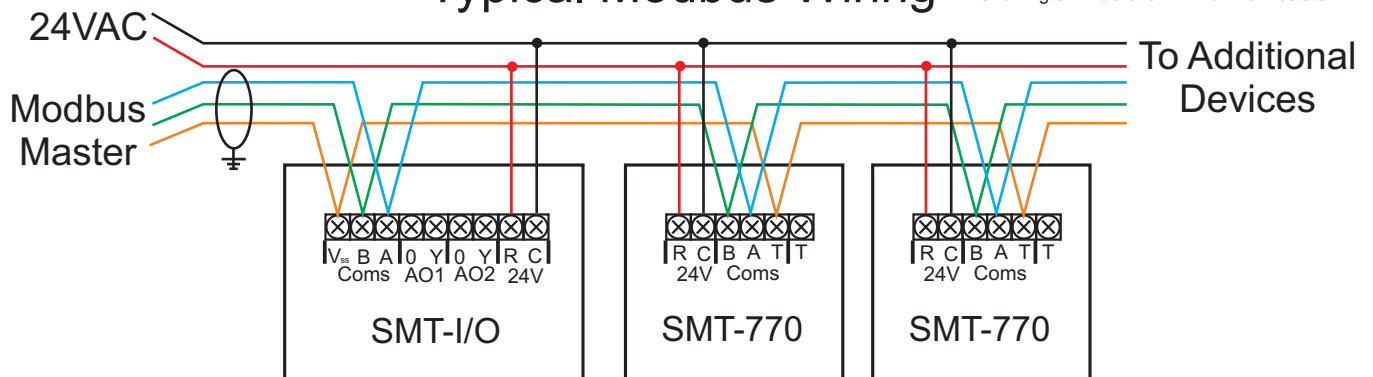


Board Layout



Typical Modbus Wiring

Showing SMT-I/O & SMT-770 Thermostats



Condensed Objects List

- 40769 Network Address Read
- 40770 Reset to Factory default
- 40771 Baud Rate
- 40781 Sensor 1 Type
- 40782 Sensor 1 Calibrate
- 40783 Sensor 1 Reading deg C (1.0)
- 40784 Sensor 1 Reading deg C (0.1)
- 40785 Sensor 1 Reading deg F (1.0)
- 40786 Sensor 1 Reading deg F (0.1)
- 40787 ~ 40828 Sensor 2 ~ Sensor 8 registers
- 40829 AO 1 type
- 40831 AO1 Voltage (1.1) & PWM time x 10Sec
- 40832 AO1 Voltage (0.01) & PWM time x 1 sec
- 40833 AO1 PWM Peak Time x 10 seconds
- 40834 AO1 PWM Peak time x 1 second
- 40835 ~ 40840 AO2 registers
- 40843 Relay 1 Default communication loss value
- 30844 Relay 1 Relay State
- 30847 ~ 30898 Relay 2 ~10 registers

SMT- I/O works well with...

SMT-770 Thermostat



Attractive, easy to use and reliable Air Conditioning Control. Multi stage equipment control, single or 3 fan speed, manual or programmable.

770-HMI



Connect multiple Modbus slave devices to the 770-HMI to provide centralised control with web access, 365 day scheduling for any or all devices, graphic displays and trending.

Simply, easily and without fuss.

