SYX66x Range of Controllers

Application Notes for:
SYX660
SYX661
SYX662
SYX663
SYX664
Introduction

This information helps installers to wire the controllers and get answers to common questions. Please post questions in the support forum and this document will be updated.
SYX66x Additional Room Sensors

The SYX66x range typically accepts two room sensors one sensor each on P5 and P6. These are averaged in the software and used for control purposes. At times customers may request more sensors to be connected. Here we consider the options for more sensors.

Note: Only the combined average of both P5 and P6 will be used by the controller.

In the diagram we show the wiring connections of the sensors. Physically there are always four sensors at all times. How you locate the sensors depends on what you need. In some cases two sensor beads may be mounted in one housing. This is a functional compromise but is easy achieved in the field by removing the circuit boards and wiring as shown.

Note: Not applicable for use on SYX660 as the sensors are not resistive. Use only on SYX661, SYX662, SYX663, SYX664.
All sensors must be the same characteristic e.g., NTC10, PT1000 etc.
SYX660 Wireless Sensor Option

The SYX660 uses KP10 sensors this means it is compatible with the SyxthSense FLTA KP10 wireless sensor station.

The FLTA KP10 can provide a wireless outside and two individual room temperature readings into the SYX660 Controller. These may be required where sensors do not exist or cable runs are impossible due to asbestos or routes available.

The FLTA KP10 channels will need to be assigned and the sensors will need to be addressed using the FL-SER commissioning tool before setting into use.

Notes:
Use a dedicated AC/DC supply for the FLTA-KP10.
Do not Earth the 0v of this supply.
Take the PSU 0v to 15 or 33 on the SYX660
Take FLTA KP10 AO1 to P1 on the SXY660
Take AO2 to P5
Take AO3 to P6