

Hausmate Ceiling Sensor Unit data sheet

Description

The Sensor Unit (SU) is an input unit for the Hausmate home automation system. It houses sensors in a ceiling mounted plastic moulding and transmits their signals back to a Zone Gateway (ZG) for digitising and sending back to the Hausmate controller. The SU has two RJ45 sockets for CAT5/CAT6 cable to connect to a Zone Gateway (ZG) and auxiliary sensors which may be located near to the SU, e.g. a leak detecting humidity sensor located under a bath may connect to the bathroom SU.



As standard the SU houses the following sensors - two temperature sensors, one at the SU's ceiling location and an infrared sensor for remote object temperature sensing, normally below the ceiling level. Ambient light level, humidity, and PIR for occupancy detection. Optionally 1 or 2 extra sensor may be added e.g. CO2 sensor, remote humidity, remote temperature, door open, window open.

Connections

The SU has 2 connectors:

ZG socket - for connecting back to a ZG - this supplies the SU with it's power and relays back it's sensor readings. This is a RJ45 socket.

AUX socket - for connecting locally located remote sensors. This is a RJ45 socket

Sensor properties

Ambient temperature (SU location) - -20C to +100C

Object temperature (infrared temperature sensor) - -20C to +60C, +-2.0C

Ambient light - 0-100% relative output.

Humidity - 0% to 59% +-5%RH, 60 to 100% +-8%RH

PIR - max range 12M within cone of radius equal to distance from sensor

Extra PIRs - side mounted on SU, up to 6 positions, max range 12m within cone of radius equal to distance from SU

Optional CO2 - 0 to 2000ppm +-3%, 0-50C, 5-95%RH

Physical

Dimensions: 130mm diameter, 35mm high, similar to a standard domestic 'linked' smoke detector

Storage: 0 to 40C, 10 - 95%RH non-condensing

Usage: 5 to 35C, 10 - 95%RH non-condensing

