Room Thermostat

**Standards and approvals**

**Technical specification**
- **Voltage Rating:** 230V AC 50Hz
- **Switch Rating:**
  - Terminal 3 – 10A resistive, 3A inductive
  - Terminal 4 – 6A resistive, 2A inductive
- **Switch Type:** Single pole, double throw (SPDT)
- **Temperature Setting Range:** 10 to 30°C
- **Thermal Differential:** 0.5-1-0°C (at a heat ramp of 3°C per hour with heat anticipator connected)

**Description**
The KT6360BWHI is a mains voltage room thermostat designed to give automatic temperature control of domestic wet central heating systems. It can be used to directly switch a circulating pump or boiler, or to operate spring return and motor open/motor close zone valves. The KT6360BWHI can switch electrical heating loads up to 10A.

The KT6360BWHI thermostat can also be used for cooling applications.

**Features**
- Dual diaphragm temperature sensing element
- Suitable for surface or switch box mounting
- Heat anticipator for close temperature control
- Indicator neon, illuminates on a call for heat
- Change-over contact switching
- Double insulated
- Earth wire parking terminal
- RFI suppression
- Large setting dial

**Installation**
A room thermostat must be located in a position with good air circulation at average ambient temperature, preferably on an inside wall about 1.2 to 1.5m from the floor.

The thermostat must not be positioned in draughts, above a radiator or where it will be subject to localised heat gains from direct sunlight, water pipes or appliances.

To obtain close temperature control the heat anticipator must be operational. This is achieved by wiring the unit as shown on the wiring diagram.

There are two knockouts on the top of the cover and one knockout on each side for surface wiring. When mini-trunking is used it must be fitted firmly against the thermostat cover so that there is no gap between the cover and trunking.

**Dimensions**

**Wiring**

N.B.1. Switching contacts are shown in the normally open position – i.e. no heat demand.

2. Typical heating loads: Motorised zone valve, pump, boiler.
Electronic Timeswitch

Standards and approvals
Complies with BS EN 60730-1, BS EN 60730 2-7,
BS EN 55014-1, BS EN 55014-2
92/31/EEC).

Technical specification
- Switch Type: Single pole, double throw (SPDT)
- Switch Rating: 3(3)A
- Timing Accuracy: ± 1 min/month
- Timing Resolution:
  - Time of Day: 1 minute
  - Programme Times: 10 minutes
- Ambient Operating Temperature: 0-50°C
- Power Reserve: Minimum 4 days
- Weight: 330g approx (including wall plate)
- Earthing: Double Insulated
- Battery Back-up: Integral battery with built-in charging circuit

Options
KST6100CWHI 7 Day Single Channel timeswitch with up to three ON/OFF periods a day.
KST6100AWHI 24 Hour Single Channel time-switch with up to two ON/OFF periods a day.

Description
KST6100CWHI is a 7 day single channel timeswitch that gives great flexibility offering up to three on/off switchings per day, additionally, each day could be programmed differently. Ideal for combi installations when the user has different heating needs from day to day or as a zone control on larger systems.

Transfer of programming information from one day to the next is simplified by the provision of a copy button.

KST6100AWHI is a 24 hour timeswitch with two on/off switching times per day. This unit can be used for combi boilers, added zones or any application where small electrical loads need switching.

A hinged cover conceals the programming buttons when not in use, leaving only the two override buttons exposed. The front cover also carries abbreviated user instructions on the inside for permanent ready reference.

Features
- Simple change to 24 hour clock display
- Programme indicator lights
- Double insulated
- Extra hour facility for one, two or three hour boost or programme extension
- Earth wire parking terminal

Wiring

Notes
1. Suitable for potential free mains voltage switching.
2. If normal mains voltage is required link terminal L and 1.

For a full range of corresponding products, see pages 65-66 in the product selector.
Electronic Programmer

Standards and approvals

Technical specification

Switch Type:
Single pole, double throw (SPDT)

Switch Rating:
3(3)A

Timing Accuracy:
± 1 min/month

Timing Resolution:
Time of Day 1 minute
Programme Times 10 minutes

Ambient Operating Temperature:
0-50°C

Power Reserve:
Minimum 4 days

Weight:
330g approx (including wall plate)

Earthing:
Double Insulated

Battery Back-Up:
Integral battery with built-in charging circuit

Features
- 12 hour time display with am/pm indication
- Simple change to 24 hour clock display
- Programme indicator lights
- Double insulated
- Extra hour facility for one, two or three hour boost or programme extension
- Earth wire parking terminal

Description
The KST6400AWHI is a fully featured electronic programmer offering 24 hour programming with up to two ON/OFF periods per day, which can be set independently for heating and hot water.

A hinged cover conceals the programming buttons when not in use, leaving only the four override buttons exposed. The front cover also carries abbreviated user instructions on the inside for permanent ready reference.

Options
KST6400AWHI 24 hour full programmer with independent time control for heating and hot water.

Installation
The KST6400AWHI can be either surface or flush switch box mounted, for which fixing screws are supplied. The wiring sub-base has holes to suit single switch boxes and breakouts for surface wiring and mini-trunking.

When wiring is completed the plug-in module is fitted onto the sub-base and secured by tightening the retaining screws.
Programmable Thermostat

Standards and approvals
Complies with BS EN 60730-1, BS EN 60730-2-7, BS EN 55014-1, BS EN 55014-2

Technical specification
Switch Type:
Single Pole, double throw (SPDT)

Electric Rating:
230V~, 50…60Hz, 0.1A to 5A resistive
0.1A to 2A inductive (0.6pf)
24V~, 50…60Hz, 0.5A to 5A resistive
0.5A to A inductive (0.6pf)

Description
The KCMR701AWHI thermostat is designed to provide automatic time and temperature control of domestic heating systems. It can be used as part of a system in conjunction with combi-boilers, oil-burners and gas fired boilers, circulation pumps, thermal actuators, zone valves and electric heat systems (<5A).

The KCMR701AWHI is designed with the installer in mind and includes a moulded back-plate with trunking guides and wiring breakouts to make installation quick and easy.

The unit is ideal for consumers who want reliable precise temperature control from a modern looking, simple to program and easy to use product.

Features
- Attractive slim, modern styling
- 24 hour heating program
- Up to 4 daily independent time and temperature level changes
- Room Temperature Enquiry
- EEPROM memory holds the user program indefinitely
- OFF mode has an integral frost protection setting at minimum 5°C (installer adjustable) so that pipes in the house will never freeze in winter
- Battery powered by 2 x AA size (LR6) alkaline cells
- Minimum battery life of 2 years with low battery warning indicator
- Surface or wall box mounting options, with trunking guides and wiring breakouts to simplify installation
- No installer links or special installer switches on the back of the unit mean no adjustment is required for combi-boilers and most domestic central heating systems
Programmable Thermostat

Installation
Location
The KCMR701AWHI thermostat is the control element of the heating system and, therefore, MUST be located in a position with good air circulation, at average room temperature and on an inside wall, 1.5 metres above the floor level. Do not position the KCMR701AWHI thermostat near sources of heat (radiator, hot air vents, TV or lights), near doors or windows, or in direct sunlight.

Mounting
The KCMR701AWHI thermostat can be mounted directly on the wall surface or on to an electrical wall box.

Wiring
The KCMR701AWHI thermostat is designed for fixed wiring only and must be installed in accordance with the latest I.E.E. regulations. Ensure the wiring connection to the supply is via a fuse rated at no more than 5 amps and a Class "A" switch (having contact separation of at least 3 mm in all poles).

Wiring Diagrams

Dimensions

![Dimensions Diagram](image-url)
Programmable Thermostat

Standards and approvals

Technical specification
Switch Type:
Single Pole, double throw (SPDT)
Electric Rating:
230V, 50…60Hz, 0.1A to 5A resistive
0.1A to 2A inductive (0.6pf)
24V, 50…60Hz, 0.5A to 5A resistive
0.5A to 2A inductive (0.6pf)

Description
The KCMR707AWHI thermostat is designed to provide automatic time and temperature control of domestic heating systems.

It can be used as part of a system in conjunction with combi-boilers, oil-burners and gas fired boilers, circulation pumps, thermal actuators, zone valves and electric heat systems (<5A).

The KCMR707AWHI is designed with the installer in mind and includes a moulded back-plate with trunking guides and wiring breakouts to make installation quick and easy.

The unit is ideal for consumers who want reliable precise temperature control from a modern looking, simple to program and easy to use product.

Features
- Attractive slim, modern styling
- 7 day heating program
- Up to 4 daily independent time and temperature level changes
- Room Temperature Enquiry
- EEPROM memory holds the user program indefinitely
- OFF mode has an integral frost protection setting at minimum 5°C (installer adjustable) so that pipes in the house will never freeze in winter
- Battery powered by 2 x AA size (LR6) alkaline cells
- Minimum battery life of 2 years with low battery warning indicator
- Surface or wall box mounting options, with trunking guides and wiring breakouts to simplify installation
- No installer links or special installer switches on the back of the unit mean no adjustment is required for combi-boilers and most domestic central heating systems
Programmable Thermostat

**Installation**

**Location**
The KCMR707AWHI thermostat is the control element of the heating system and, therefore, MUST be located in a position with good air circulation, at average room temperature and on an inside wall, 1.5 metres above the floor level. Do not position the KCMR707AWHI thermostat near sources of heat (radiators, hot air vents, TV or lights), near doors or windows, or in direct sunlight.

**Mounting**
The KCMR707AWHI thermostat can be mounted directly on the wall surface or on an electrical wall box.

**Wiring**
The KCMR707AWHI thermostat is designed for fixed wiring only and must be installed in accordance with the latest I.E.E. regulations. Ensure the wiring connection to the supply is via a fuse rated at no more than 5 amps and a Class “A” switch (having contact separation of at least 3 mm in all poles).

**Dimensions**

![Dimensions Diagram]

**Wiring**

- **24-230V~ 50-60Hz**
  - L
  - N
  - A
  - B
  - C
  - SA
- **230V~ 50-60Hz**
  - L
  - N
  - A
  - B
  - C
  - SA
  - M
  - L
  - N
  - VC6631...
  - PUMP
- **24-230V~ 50-60Hz**
  - L
  - N
  - A
  - B
  - C
  - SA
  - M
  - N
- **230V~ 50-60Hz**
  - L
  - N
  - A
  - B
  - C
  - SA
  - M
  - N
  - SYB32540
  - M
  - V4043
  - V
  - N
  - L
- **24-230V~ 50-60Hz**
  - L
  - N
  - A
  - B
  - C
  - SA
  - M
  - N
  - M6...