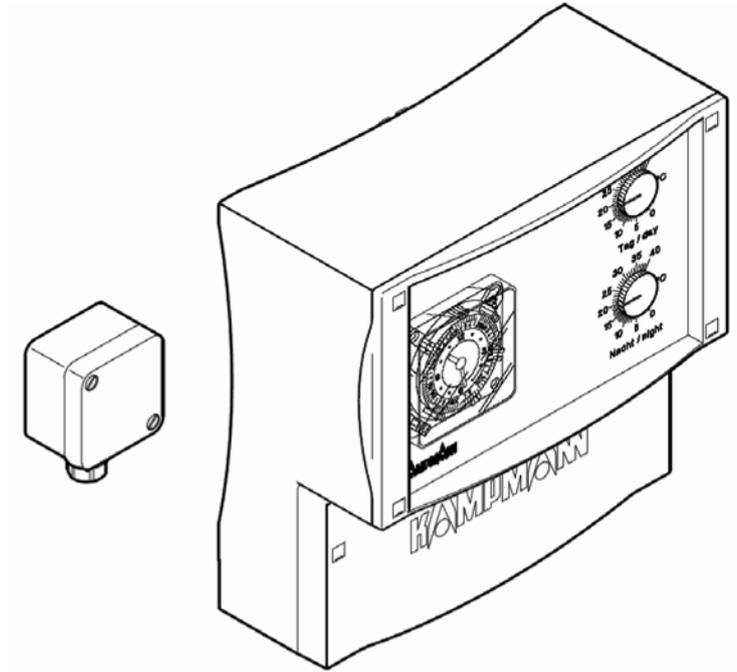


with electronic room temperature control and
room temperature sensor type 30076



Assembly and installation instructions

Keep in a safe place for future reference!
Read carefully prior to commissioning!

1.96 Timer

with electronic room temperature control and room temperature sensor type 30076

Assembly and installation instructions

Symbols:



Caution! Danger!

Non-observance of this information may cause serious damage to persons or property.



Danger of electrocution!

Non-observance of this information may cause serious damage to persons or property by electric current.



Important

*Important note!
Nonobservance of this information cannot guarantee the correct operation of this/these unit(s).*

Read this manual through carefully before commencement of installation!

All persons involved in the installation, commissioning and use of this product are duty bound to pass this manual onto subsequent tradespersons and then to the end user or operator. Retain this manual until the system is ultimately decommissioned!

Amendments to the content of this manual may take place without prior notice being given!

1. Important information

- | | |
|----------------------------------|---|
| 1.1 Correct and proper use | 3 |
| 1.2 Safety information | 4 |

2. Operation

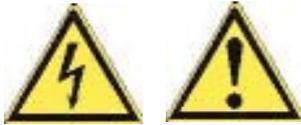
- | | |
|--|---|
| 2.1 System diagram - unit heater | 5 |
| 2.2 Switching devices that can be actuated | 6 |

3. Installation

- | | |
|--|---|
| 3.1 Installing the timer | 7 |
| 3.2 Installing the room sensor | 7 |
| 3.3 Setting the switching differential | 7 |
| 3.4 Calibrating the sensor | 8 |
| 3.5 Electrical wiring | 8 |
| 3.6 Technical data | 8 |

4. Operation

- | | |
|-----------------------|------|
| 4.1 Programming | 9-10 |
|-----------------------|------|



1. Important information

1.1 Correct and proper use

The Kampmann timer is built according to the state of the art and the recognised safety regulations. Nevertheless, its use can result in danger to people or damage to the unit if it is not appropriately installed and operated or correctly and properly used.

Applications

The Kampmann type 30076 timer should only be used

- indoors (e.g. factory buildings and warehouses, offices, showrooms etc.)

The Kampmann type 30751-30767 stage controller should not be used in the following way:

- in areas where there is a serious risk of explosion,
- in areas which have an aggressive atmosphere,
- in outside areas

During installation, the product should be protected from any humidity. If in doubt, discuss your application with the manufacturer. Any use other than the uses specified above is deemed not to be correct and proper. The operator of the equipment alone shall be liable for any damage resulting from this. Correct and proper use is also deemed to include compliance with the information on installation described in this manual.

Specialist knowledge

The installation of this product requires specialist knowledge of heating, cooling, ventilation, installation and electrical engineering. This knowledge, generally learned in vocational training in one of the fields mentioned above, is not described separately. Damage caused by improper installation is the sole responsibility of the operator.

Scope of application of this manual

- Installation
- Electrical installation
- Commissioning and operation

1.96 Timer

with electronic room temperature control and room temperature sensor type 30076

Assembly and installation instructions



Regulations

- Accident prevention regulations
- DIN VDE 0100, DIN VDE 0105
- EN 60730 (Part 1)
- Technical wiring regulations (TABs) issued by the regional electricity providers, as well as the generally recognised technical regulations



1.2 Safety information

Installation, assembly and maintenance of electrical equipment should only be conducted by a qualified electrician (Association of German Electricians approved or similar). Wiring should comply with current Association of German Electricians' (VDE) guidelines and regulations set out by the regional energy supply companies (EVU).

The installer of this unit should have adequate technical knowledge about the following:

- Safety and accident prevention directives,
- Guidelines and recognised technical regulations, such as German Association of Electricians (VDE) regulations
- DIN and EN standards.



Attention:

Non-compliance with these directives and the detailed instruction contained within this installation manual can cause the unit to malfunction, resulting in damage to the unit itself and possible fatal injury. Incorrect wiring can also result in fatal injury!

Safety-conscious working

- Disconnect all parts of the system from the mains power supply before starting any wiring and maintenance work!
- Ensure that the system cannot be accidentally re-connected!
- Please read this manual in full to guarantee the correct installation and trouble-free operation.

Anyone involved with the installation, commissioning and use of this product is obliged to pass this manual on to tradesmen who are involved at the same time or at a later date, as well as to the end user or operator.

Modifications to the unit

Do not undertake any modifications, renovations or additions to the unit without discussing these with the manufacturer as these could impair the safety and operation of the unit. Modifications / alterations may only be carried out with written approval.

Do not undertake any work on the unit that is not described in this manual. On-site systems and cabling must be suitable for connection to the intended system!

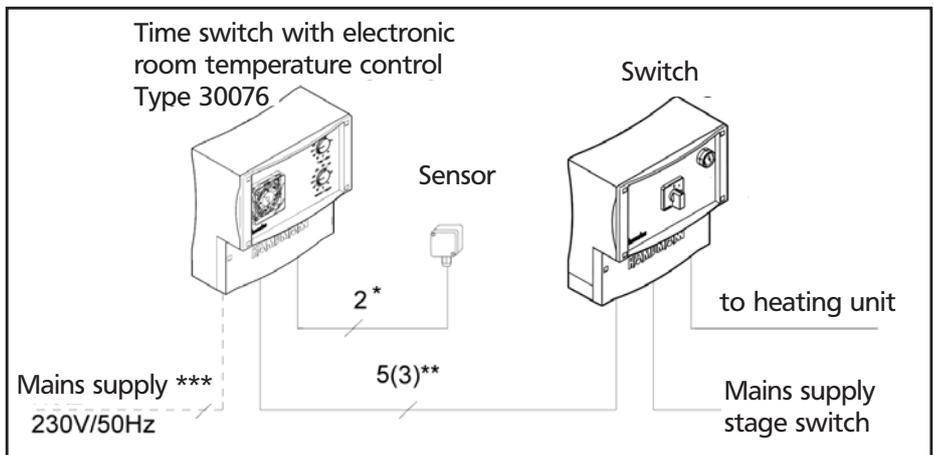


Connection faults or modifications can lead to damage to the unit! The manufacturer shall not be liable for any damage due to the wrong connection and/or improper handling!

2. Operation

This Kampmann time switch with electronic room temperature control is used to control Kampmann heating units as a function of the room temperature. The remote sensor detects the room temperature and should it be below the temperature pre-set on the time switch, the electronic controller within the time switch activates the stage switch. When the pre-set temperature is reached, the system is switched off again. The time switch can be programmed to operate in day or week mode and heating and night set-back mode.

2.1 Wiring diagram - Unit heaters (e.g. TOP)



* Lay the 1.5 mm² connection cable for the sensor, e.g. J-Y (St) Y 4 x 2 x 0.8 mm, max. 100 m, separately from high-voltage cables.

** If there is a separate power supply for the timer then 3-core cable including circuit breakers are required for the connection to the stage switch.

Note: only a stage switch may be connected to the timer with an electronic room temperature control type 30076.

1.96 Timer

with electronic room temperature control and room temperature sensor type 30076

Assembly and installation instructions

2.2 Switches suitable for use with time switch

Description	Model
2-stage, 3-phase switch	30051
3-stage, 3-phase switch	30070
5-stage, 3-phase controller 2 A	30751
5-stage, 3-phase controller 4 A	30752
5-stage, 3-phase controller 8 A	30754
1-stage, 1-phase switch	30069
7-stage, 1-phase controller 4 A	30771
7-stage, 1-phase controller 7,5 A	30772

The use of other makes of switch is not recommended. Any queries in this regard should be discussed with our technical staff.

3. Installation

3.1 Fitting

The time switch should be mounted on a flat wall in a dry, dust-free room with the controls on the front panel easily accessible. The housing is fixed to the wall with three screws (the location of which is shown on the back of the housing). As the sensor is a separate unit, the time switch can be located in an adjacent room.

3.2 Installation of the room temperature sensor

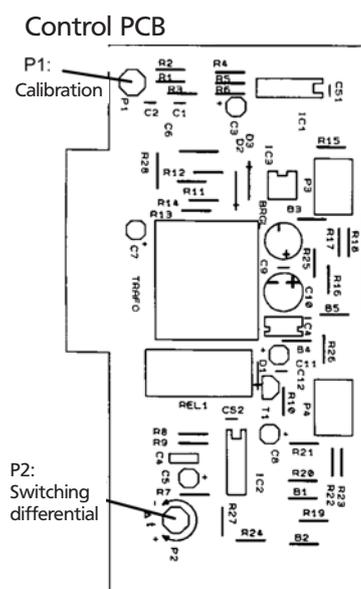
As the sensor detects the room temperature at the point at which it is located, it should be fixed in a place where the temperature measurement will not be affected by its surroundings:

- approx. 1.5m above ground level on an internal wall.
- away from doors and windows (draughts)
- in front of curtains, blinds or furniture
- out of direct sunlight
- out of the direct airflow from heating units
- away from other heat sources, such as heating units, lamps etc.
- Connection: e.g. J-Y (ST) Y 4 x 2 x 0.8 mm;
Cable length: max. 100 mm with 1.5 mm²

3.3 Setting sensor should be located

The switching differential can be set anywhere between 0.6K and 6K but is pre-set with the smallest possible differential. If the heating system will be frequently switched on and off, a higher differential can be set as follows:

- Switch off mains power and ensure that it cannot be switched on again.
- Remove temperature knobs on front of unit.
- Unscrew and remove front panel.
- Remove PCB carefully.
- Set switching differential on potentiometer P2 Δt
- Reassemble unit.



1.96 Timer

with electronic room temperature control and room temperature sensor type 30076

Assembly and installation instructions

3.4 Calibrating the sensor

The electronic room temperature control is calibrated to the sensor. However, if the actual room temperature varies from the set temperature, possibly due to poor positioning of the sensor, this can be rectified.

Important – The sensor can only be calibrated if the sensor is connected to the mains supply and so this work should only be carried out by a qualified electrician with responsibility for compliance with all safety guidelines.

To calibrate the sensor:

- Determine the room temperature at a representative location.
- Adjust both temperature knobs to the temperature taken.
- Remove knobs.
- Unscrew and remove front plate.
- With a screwdriver, turn potentiometer P1 on the PCB in an clockwise direction until the heating system is switched on.
- Turn potentiometer P2 in an anti-clockwise direction until the heating system is switched off.
- Reassemble unit.

3.5 Electrical connection

The electrical wiring is carried out in conjunction with the stage switch and unit heater.

Use of the stage switch with a unit heater (e.g. Top)

Refer to the enclosed wiring diagram for details of the wiring to the unit heater stage switch. Wiring diagram information: article No: 196000030076, drawing number of the wiring diagram: 10120.

3.6 Technical data

	Time switch	Remote room temperature sensor
Dimensions H x B x T:	262 x 277 x 153 mm	50 x 50 x 30 mm
Fixing:	surface-mounted on wall	surface-mounted on wall
Enclosure:	IP 20	IP 54
Operating voltage:	230 V AC, 50 Hz	low voltage
Switching voltage:	230 V AC /8(3) A Ohmsch(induktiv)	-
Switching differential:	0,6 ... 6 K adjustable	-
Temperature range:	0 ... 40 °C	-

4. Operation

The timer shifts between heating and setback mode. Set a week or day program using the pins. Set the required temperature for the heating-up and setback times on the setpoint indicators on both electronic controls.

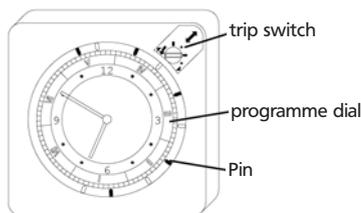
4.1 Programming

Function

The timer shifts between the two potentiometers for heating mode and setback mode. The programme dial has a 7-day week programme on one side and a 24-hour day programme on the reverse.

The "on" and "off" times are selected using the red and blue pins:

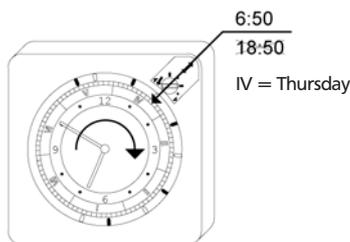
red → Heating mode
blue → Setback mode



Setting the clock

The time is set by turning the hour hand in a clockwise direction, whilst ensuring that both the correct day and the correct time is set. Day and time are critical as they are both located on the same dial.

The diagram shows Thursday (field IV on the programme dial) 06.60 a.m.



Important!

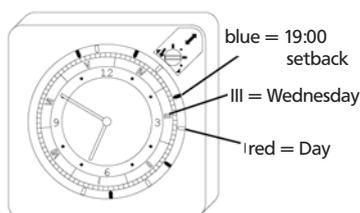
- Do not turn programme dial!
- Do not turn clock hands in an anti-clockwise direction!

Setting the on/off times

Set the switching times for heating mode and setback mode using the red and blue pins.

The pins should be stuck into the teeth of the programme dial so that they point to the required on/off times.

red ↔ Heating mode
blue ↔ Setback mode



Example: Field III = Wednesday, the red pin switches to heating mode at 7:00 AM and the blue pin switches to setback mode at 07:00 PM.

1.96 Timer

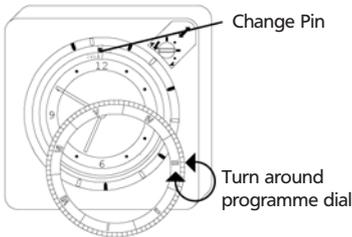
with electronic room temperature control and room temperature sensor type 30076

Assembly and installation instructions

Week programme / day programme

The clock can be switched from week mode to day mode or vice-versa as follows:

- Remove programme dial.
- Adjust the clock so that you can change the digits to the other ring.
- Set to 7 day or 24 hour programme
- Replace the programme dial with the required programme mode facing up. Ensure that the digits fit into a tooth on the rear of the programme dial.
- Set the clock
- Fix the new on/off times with the pins.



Manual operation

The on/off times can be manually adjusted in two ways:

- Single command: turn the Day/Night selector in an anti-clockwise direction.

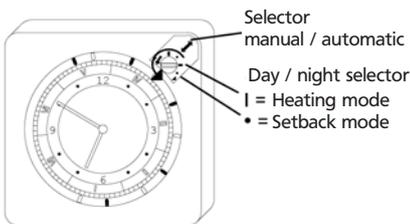
- ! = Heating mode
- = Setback mode.

The manual command is automatically overridden at the next pin which reserves the switch command.

- Manual operation: The unit can be manually operated during holiday periods by pushing the Day/Night Selector outwards (the pins no longer turn the dial). Turn the knob to:

- ! = Heating mode,
- = Setback mode.

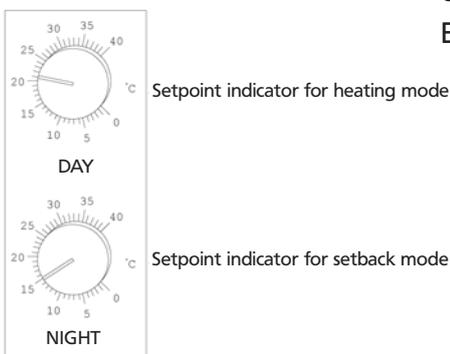
To override this command push the knob inwards.



Electronic room temperature control

Set the temperature setpoint for the heating mode and setback mode with the two setpoint indicators "DAY" and "NIGHT" on the electronic control.

Example: 21°C Heating mode
15°C Setback mode



Notes



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