





CM67RFMV

WIREFREE CHRONOTHERM

PRODUCT DATA



FEATURES

- **CM67RF MV** can be installed without disrupting your room décor – no wired connection required between the room unit and the boiler
- Reliable RF communication utilising 868,3 MHz band with 1 % duty cycle limit to minimise communication disturbance
- **CM67RF MV** can be used to control directly mixing valves depending on the room setpoint temperature
- Maximum system efficiency and extended boiler life due to unique zoning system synchronisation
- Up to 4 **CM67RF MV** can be bound with one HC60NG for boiler feedback heat on demand
- Suitable for any room décor due to subtle styling
- Easy to program – user friendly interface allowing 7-day programming to match variety of lifestyles
- Armchair programmed
- Non volatile memory holds the user program permanently even when batteries being replaced
- Party button to temporarily maintain (or adjust) the current temperature for 1-23 hours
-  Day Off button copies Sunday's program into tomorrow or today to allow a rest day program without having to re-program the **CM67RF MV**
-  Holiday button provides energy savings by reducing the temperature for 1 to 99 days when homeowner is on holiday, returning to normal operation (AUTO or MANUAL) on the day of return.

GENERAL

The **CM67RFMV** Chronotherm is designed to provide automatic time and temperature control of heating or cooling applications. It can be used to control directly mixing valves for individual zoning control. The Chronotherm is communicating with the universal mixing valve controller HM80 depending on the deviation of the room temperature and room temperature setpoint the mixing valve will be closed or opened.

In combination with other **CM67RFMV** Chronotherms and one HC60NG receiver it can be used to control the boiler depending on the heat demand (up to 4 **CM67RFMV**).

No wiring to the room unit is required. The installer needs to wire the universal mixing valve controller HM80 only to the controlled device mixing valve and mount the room unit in a suitable location where RF communication is reliable.

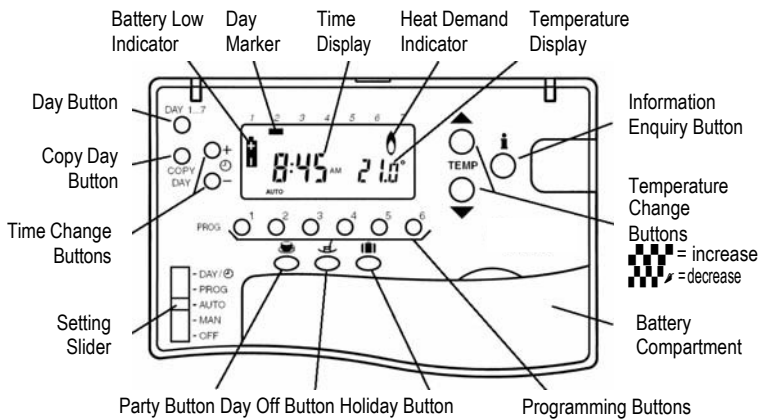
The **CM67RFMV** uses reliable RF communication technology in the 868,3 MHz band.

The unit is ideal for consumers who want reliable and precise temperature control from an easy-to-use product.

FEATURES continued

- When used with the table top stand the room unit can be positioned anywhere in the room where RF communication is reliable
- Installer Set-Up Mode allows extra functions to be set at the discretion of the installer to match the application :
 - Pump after running time
 - Mixing valve running time
 - Upper / Lower Flow Temperature Limit Adjust
 - Upper / Lower Setpoint Limit Adjust
 - Forced operation pump
 - Forced operation mixing valve
 - Temperature offset
 - Heat / Cool Operation
 - Fail-safe mode for communication loss
- Frost protection is ensured when the slider is in the OFF position.
- **CM67RFMV** can be used with Automatic Time Setting module (Q6667B1007)

CM67RFMV CONTROLS/DISPLAY LAYOUT



SPECIFICATIONS

ELECTRICAL

- Room unit power supply** : 2 x 1.5 V IEC LR6 (AA) Alkaline cells
- Battery life** : 3 years typical
- Battery replacement** : Program retained in EEPROM
- Receiver power supply** : 230 V AC + 10% - 15%, 50Hz
- Switch type** : SPDT potential free
- Output rating** : 24-230 V AC, 10 A resistive, 3 A inductive 0.6 p.f.
- Wiring (receiver only)** : Cable terminals for mains and relay wiring for max 2.5 mm² wire
- Wire access** : from the rear (wall box mounting), right and bottom

RF Communication

- RF operation band** : ISM (868.0-868.6) MHz, 1% duty cycle
- RF communication range** : 30 m in a residential building environment
- RF communication technology** : short, high rate transmissions to minimise air time and avoid collisions
- Blocking immunity** : Receiver class 2 (ETSI EN300 220-1 version 1.3.1)
- RF binding method** : Factory pre-bound with the room unit. For multi-zone application receiver can be bound to 4 different room units via simple binding procedure)

ENVIRONMENTAL & STANDARDS

- Operating temperature** : 0 to 40 °C when relay load < 8 A
- temperature** : 0 to 30 °C when relay load > 8 A
- Shipping & storage temperature** : -20 to 55 °C
- Humidity** : Humidity range 0 to 90 %, non-condensing
- IP class** : 30
- Meeting the following standards** : EN60730-1(1995), EN55014-1(1997), EN55014-2(1996), ETSI EN300 220-3(2000), ETSI EN301 489-3(2000)

TEMPERATURE CONTROL

Sensing element : 100K (@ 25 °C) NTC thermistor

TIME SETTING / PROGRAMMING

- Time display** : 24 hour or 12 hour AM/PM format
- Time keeping accuracy** : Typically better than 10 minutes per year
- Program** : 7-day with 6 daily time and temperature level changes
- Time setting resolution** : Time of day - 1 minute
Program – 10 minute steps
- Temperature setting range** : Program : 5 to 30°C in 0.5 °C steps
Frost : 5 °C or equal to lower limit (5 °C to 16 °C).
- Room Temperature display range** : From 0 °C to 40 °C (Display resolution 0.5°C)

APPLICATION A

Mixing Valve Application for UFH without boiler feedback

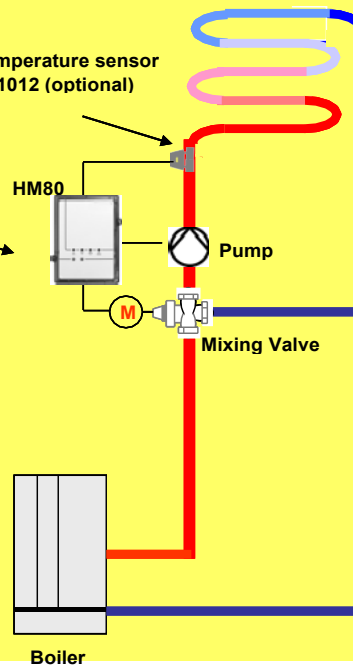
CM67RFMV with parameter settings

Pump after running time 0...99 min
 Actuator running time 0...240 s
 Min flow temperature setpoint 0...50°C
 Max flow temperature setpoint 0...99°C

CM67RFMV



Flow temperature sensor T7414C1012 (optional)



The HM80 controls the mixing valve depending on the room temperature setpoint and communicates with the CM67RFMV. In addition the controller has a relay output for pump control and connection for the flow sensor.

Without using the flow sensor the mixing valve position is adjusted in accordance with the room setpoint temperature and the actual room temperature.

If the flow sensor is used the mixing valve position is adjusted in accordance with the calculated flow temperature setpoint and the measured flow temperature. The flow temperature setpoint is calculated from the room temperature setpoint and the actual room temperature deviation.

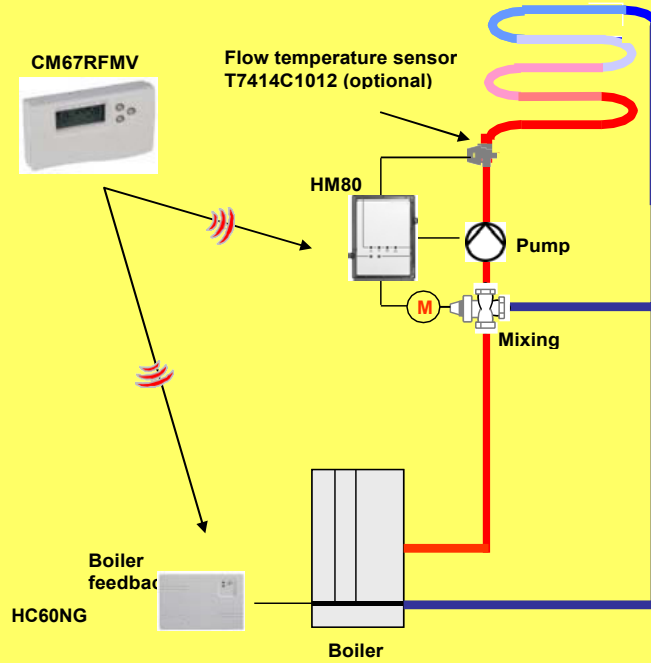
APPLICATION B

- Set-up specific applications parameters
- Enable special features
- Establish support for ATS module

Special Features	Description	Setting
Pump after running time	If the mixing valve is closed the pump continuous run for to the set run time	0.....99 minutes
Mixing valve running time	Adjust mixing valve running time (default 150s)	0....240s
Flow temperature max.	Maximum flow temperature limit.	0.....99°C
Flow temperature min.	Minimum flow temperature limit.	0....50°C

Mixing Valve Application for UFH with boiler feedback

CM67RFMV with parameter settings
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