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You can read the recommendations in the user guide, the technical guide or the installation guide for HONEYWELL CM901. You'll find the answers to all your questions on the HONEYWELL CM901 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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Honeywell

CM901
PROGRAMMABLE THERMOSTAT

PRODUCT SPECIFICATION SHEET



The **CM901** thermostat is designed to provide automatic time and temperature control of heating or cooling systems in villas and apartments.

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 ($\leq 8A$).

The **CM901** 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 **CM901** extra large LCD display, dynamic text display, button layout based on the same simple programming philosophy used on our acclaimed CM80 products and the introduction of an 'OK' button makes it easier to install and more user friendly.

The unit is ideal for consumers who want reliable precise temperature control from a modern looking, simple to

FEATURES

- Attractive, slim, ultra-modern styling makes it ideal for location in any type of home.
- 24 hour heating program.
- A dynamic text display on the LCD that gives enhanced feedback to the user / installer.
- Up to 6 daily independent time and temperature level changes let you set 6 time and temperature pairs to suit your lifestyle.
- LCD Backlighting to illuminate the display for easier viewing in low light conditions.
- Temporary programmed temperature override to override the programmed temperature till the next switch point.
- **H** Holiday button that provides energy savings by reducing to a constant temperature from 1 to 99 days when people are on holiday, returning to normal operation (AUTO or MANUAL) on the day of their return.
- Room Temperature Enquiry.
- EEPROM memory holds the user program indefinitely.
- OFF position has an integral frost protection setting at minimum 5°C (installer adjustable) so that pipes in the house will never freeze in winter.
- 24...230V 8A resistive, 3A inductive SPDT relay provides compatibility with most domestic central heating systems reducing the need to stock many different models.
- Battery powered by 2 x AA size (LR6) alkaline cells.
- Minimum battery life of 2 years with low battery warning indicator.
- Built in default heating program.
- Automatic Summer / Winter time change adjusts the time automatically to daylight saving time.
- Telephone interface can be fitted to allow remote switching between program modes and a fixed set-point.
- 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.
- User Set-Up Mode allows extra functions to be set at the discretion of the user:
 - AM-PM or 24hr time display.
 - Resetting the heating profile to factory default.
 - Enable / disable of Auto Summer / Winter time change.
 - Languages selection of the user interface (on selected models only).
- Installer Set-Up Mode allows extra functions to be set at the discretion of the installer to match the consumers applications and needs:
 - Optimisation.
 - Pump Exercise.
 - Upper / Lower Set point Limit Adjust.
 - Temperature offset.
 - Minimum ON time.
 - Cycle rate.
 - Heat / Cool Operation.
 - Proportional Band Width.
 - Diagnostic Mode to assist in faultfinding.

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Manual abstract:

It can be used as part of a system in conjunction with combiboilers, oil-burners and gas fired boilers, circulation pumps, thermal actuators, zone valves and electric heat systems (<8A). The CM901 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. @@@@24 hour heating program. @@Up to 6 daily independent time and temperature level changes let you set 6 time and temperatures pairs to suit your lifestyle. LCD Backlighting to illuminate the display for easier viewing in low light conditions. Temporary programmed temperature override to override the programmed temperature till the next switch point. Holiday button that provides energy savings by reducing to a constant temperature from 1 to 99 days when people are on holiday, returning to normal operation (AUTO or MANUAL) on the day of their return. Room Temperature Enquiry. EEPROM memory holds the user program indefinitely. OFF position has an integral frost protection setting at minimum 5°C (installer adjustable) so that pipes in the house will never freeze in winter.

24...230V 8A resistive, 3A inductive SPDT relay provides compatibility with most domestic central heating systems reducing the need to stock many different models. Battery powered by 2 x AA size (LR6) alkaline cells.

Minimum battery life of 2 years with low battery warning indicator. Built-in default heating program. Automatic Summer / Winter time change adjusts the time automatically to daylight saving time. Telephone interface can be fitted to allow remote switching between program modes and a fixed set-point.

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. User Set-Up Mode allows extra functions to be set at the discretion of the user: AM-PM or 24hr time display. Resetting the heating profile to factory default. Enable / disable of Auto Summer / Winter time change. Languages selection of the user interface (on selected models only). Installer Set-Up Mode allows extra functions to be set at the discretion of the installer to match the consumers applications and needs: Optimisation. Pump Exercise. Upper / Lower Set point Limit Adjust. Temperature offset. Minimum ON time.

Cycle rate. Heat / Cool Operation. @@2. 3. 4. 5. 6. 7. 8. 9.
10. 11. 12. 13. 14.

15. @@Low voltage wiring rear right. @@@@ buttons to change the factory d) Press the TEMP setting. The display will flash indicating that a change has been made. @@@@To change Cycle/Hour, please go to parameter n.

2, category 2 in the installer set-up mode. b. To change Minimum ON Time, please go to parameter n. 1, category 2 in the installer set-up mode. No action required 1. Set Minimum ON Time to 4 minutes. 2. Set Cycle/Hour to 3. Set Cycle/Hour to 12. No action required.

1. @@2. Set Cycle/Hour to 12. 1. @@@@Set Minimum ON Time to 4 minutes. 2. Set Cycle/Hour to 3. @@Time o 7:00, Temp 21 C. @@Note: Optimisation will not work in cooling mode. Change display format (default 24hr).

When enabled the Pump Exercise will switch the relay on for 1 minute at 12:00 if the relay has not been switched on since 12:00 the previous day. While in Holiday mode the Pump Exercise feature, if enabled, will operate. The normal upper temperature limit of 35 C can be o reduced down to 21 C to save the homeowner energy. Useful if the homeowner rents to tenants. The normal lower temperature limit of 5 C can be o increased up to 21 C to protect the inhabitants from cold.

Useful if the inhabitants include the elderly, children or disabled. If the thermostat is located in a hot/cold location and cannot be moved because of wiring then the measured/ o displayed temperature can be adjusted by +/- 3 C. Useful if the homeowner wants the reading to match another appliance temperature display. Can be adjusted up to 3 C (default is 1.5 C) to provide better temperature control (less overshoot).

Useful for: a. Well insulated homes with over-sized heating systems. b. Air systems with fast response. o o o What to do if we wish this feature Set parameter n.8, category 1 in the installer set-up mode to 1. AM-PM/ 24hr Display Pump exercise Set parameter n.1, category 1 in the installer set -up mode to 12. Set parameter n.5, category 2 in the installer set -up mode to 1.

Upper Temperature Limit Set parameter n.6, category 1 in the installer set -up mode to the desired limit. Set parameter n.7, category 1 in the installer set -up mode to the desired limit. Set parameter n.12, category 1 in the installer set -up mode to the desired offset value. Lower Temperature Limit Temperature Offset Proportional Band Width Set parameter n.13, category 1 in the installer set -up mode to the desired value. Optional Accessories Outside Temperature Sensor (F42010971 001) Description An Outside Temperature Sensor can be fitted, allowing the homeowner to display the outside temperate on the thermostat display by pressing the INFO i button. The thermostat will read the outside temperature every 10 minutes.

Outside temperature display range is from -30 o o C to +45 C. The sensor can be connected up to 50 meters from the unit. @@It will read the remote sensor every 1 minute. The sensor can be connected up to 50 meters from the unit. @@Fit the sensor (instructions included in the sensor package).

2. Set parameter n. @@Fit the sensor (instructions included in the sensor package). 2. Set parameter n.

10, category 1 in the installer set-up mode to 2. 4 ENOH 8546 UK07 R3 09/06 CM901 CHRONOTHERM Parameter Installer SetUp Number / Abbreviation (Press + or keys to select) Factory Setting Optional Setting Installer SetUp Category (Press PROG keys < or > to select) Display Category 1: Thermostat Parameters AM-PM / 24hr Display RESET Time / Temperature Program 1:Cl 2:rP 24 1 24 hr clock display Time / Temperature profile set to factory default Changes to 0 when one of the time/temp profiles are changed Automatic Summer/Winter Time Change Enabled Backlight Display Enabled 35°C Upper Temp. Limit 5°C Lower Temp. Limit Optimisation disabled Disabled 12 0 1 12 hr AM / PM clock display Time / Temperature are as programmed To restore the factory profile set to 1 1 1 Description Display/Setting Description Automatic Summer/Winter Time Change Backlight Display 3:tC 1 0 Automatic Summer/Winter Time Change Disabled Backlight Display Disabled 21°C to 34°C adjustment in 1°C steps 6°C to 21°C adjustment in 1°C steps Optimisation enabled Enabled 1 5:bL 1 0 1 Upper Temperature Limit Lower Temperature Limit Optimisation Remote Control Setpoint (e.



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