

Digital Programmable Thermostat HM01PT & HM01TS

Product Summary

This innovative new design of heating thermostat is aimed at the consumer market. With its large, crystal clear LCD display, the thermostat offers intuitive operation, and complete functionality. It can be used for wall-hung boilers, water heaters, electric valves, etc. It can control motorized ball valves, motorized valves, thermal valves, solenoid valves, heaters, electric heating films and electric heating. It can be used for floor heating.

Technical Data

- ❖ Power supply: AC200-240V, 50/60HZ
- ❖ Load current: 3A (water heating); 16A (electric heating)
- ❖ Accuracy: ±0.5°C
- ❖ Set-point temperature range: 5°C - 35°C
- ❖ Limit temperature range: 5-99°C
- ❖ Consumption: <0.3W
- ❖ Temperature sensor: NTC
- ❖ Size: 86*86*17mm (H*W*D)

Features

- ❖ Large LCD touch* screen with backlit display and double temperature display mode (*Touch screen model)
- ❖ Time display (minutes/hours/weeks)
- ❖ 6-period programmable temperature control setting
- ❖ Selectable internal and external temperature sensors
- ❖ Room temperature display precision to 0.5; inner precision to 0.1
- ❖ Precise room temperature setting to user preference
- ❖ Memory function protects your settings in the event of power failure
- ❖ Room temperature automatic calibration function

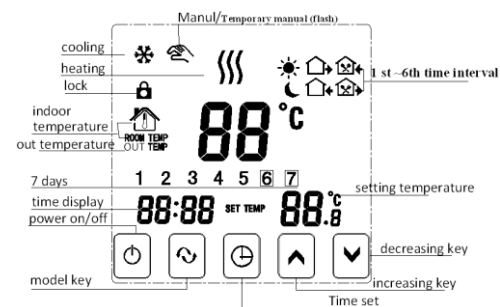
Button description

NO.	Button	Description
1		On / off
2		Mode key: switch between auto/manual time interval control. Allows temporary manual operation and time interval pre-set function
3		Time setting: minutes/hours/weeks
4		Raise temperature setting, and to increase programmed parameters
5		Lower temperature setting, and to decrease programmed parameters

Function and display

- “” manual control (temporary manual control when flashing, auto control when no sign displayed);
- “” heating is on;
- “” morning: first time interval;
- “” lunchtime: third time interval;
- “” evening: fifth time interval;
- “” open anti-freezing function;
- “” leaving the house: second time interval;
- “” afternoon: fourth time interval;
- “” night/sleep: sixth time interval;

Operation diagram



Time and time interval setting

1) Time setting

Press “” to adjust the timer display (minute/hour/week); press “” or “” to adjust time.

2) Time interval and temperature setting

First: select time interval: press “” screen until the display shows “Loop” (cycle control); then, press “”, until the screen displays “12345” (Monday to Friday control mode); press “” twice, until the screen displays “12345” (Monday to Saturday control mode); press “” 3 times, until the screen displays “12345 ” (Monday to Sunday control mode);

Second step: time interval and temperature setting; when screen displays “12345” or “12345” or “12345 ”, press “” enter time interval/temperature setting; press “”, enter time interval time setting; press “” or “” to adjust. Saves automatically.

2) Modify interval time control setting

Press “” first, then press “”; switch to the time interval option to modify time intervals.

Time interval programming

Press menu key “”, enter time interval setting, then press “” to set.




Period	Icon	Default Period Time	Default Period Temperature
Working Day	1	06:00	20°C
	2	08:00	15°C
	3	11:30	15°C
	4	12:30	15°C
	5	17:30	22°C
	6	22:00	15°C
Weekend	1	08:00	22°C
	2	23:00	15°C


1) The factory default temperature value for time intervals 3 and 4 are the same as for period 2; please adjust according to your requirements.

2) If the temperature is set to “00”, the time interval function is off.

(1) Touch screen version: when internal control temperature and external limit temperature (high temperature protection) are active, in "power on" state, press and hold time key first, then press on/off key to switch and view external temperature (this displays OUT TEMP temperature value); press time key to display room temperature;

Advanced Setting(suggestion: operated by technician)

(1) In power off state, first press and hold , then press  to enter into advanced setting, save automatically once backlight is out, press  to set next data

No.	Symbols	Setting Item	Parameter Setting Function	Factory Default
1	SEN	Sensor control option	0: internal sensor 1: external sensor 2: internal control temperature, external limit temperature	0: internal sensor
2	OSV	Limit temperature value of external sensor	5-99°C	42°C
3	dIF	Return difference of limit temperature to value of external sensor	1-9°C	2°C
4	SVH	Set upper limit temperature value	5-99°C	35°C
5	SVL	Set lower limit temperature value	5-99°C	5°C
6	AdJ	Measure temperature	Measure temperature, check and calibration	0.1°C precision Calibration (actual temperature)
7	FrE	Anti-freezing function (only for water heating)	00: anti-freeze function close 01: anti-freeze function open	00: anti-freeze function Is off
8	POn	Power on memory	00: Power on (memory off) 01: Power on (memory on)	00: Power on (memory off)
9	ADD	Allow phone app to control thermostat (Wi-Fi version)	01: Allow 02-99: Not allow	01: Allow
10	FAC	Factory default	08: Just display, no other meaning 00: Restore factory default(after adjusting to 00, press )	08

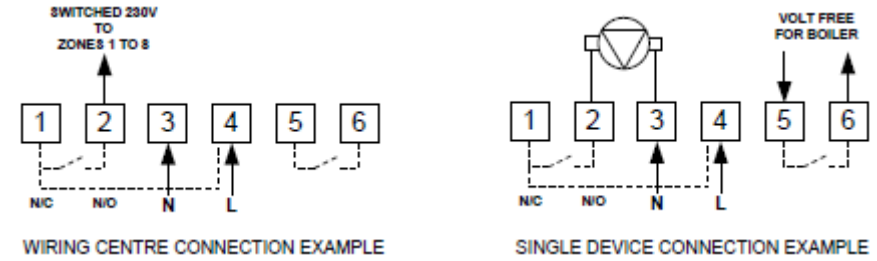
Note: hysteresis (return temperature) description: the factory default of external sensor limit temperature (OSV) set as 42°C external sensor limit temperature hysteresis (dIF) set as 2°C when temperature up to 44°C stop relay output; when temperature drops to 40°C relay output again and heating. (Operates when room temperature is lower than setting temperature.)

Sensor fault (Err)

Select internal or external sensor working mode, correctly. If the incorrect mode is selected, or the sensor is at fault (breakdown), LCD interface will display "Err"; temperature controller stops heating until fault is eliminated.

Power wiring diagram

WARNING – ISOLATE ELECTRICAL SUPPLY BEFORE CONNECTING, CHECK BOILER INSTRUCTIONS BEFORE CONNECTING


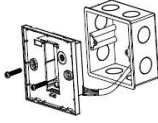
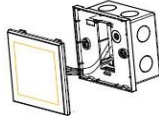
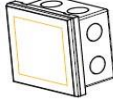


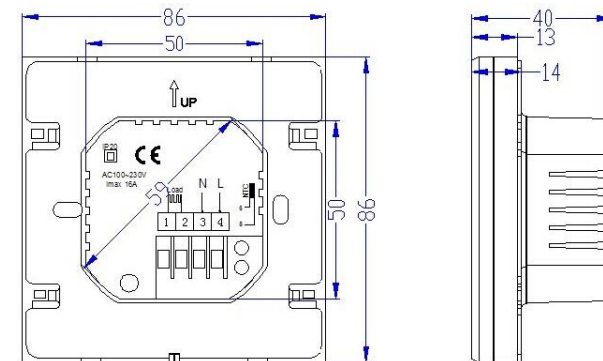
1 = Normally Closed 2 = Normally Open 3 Neutral 4 Live 5&6 Volt Free Switch, not polarity sensitive

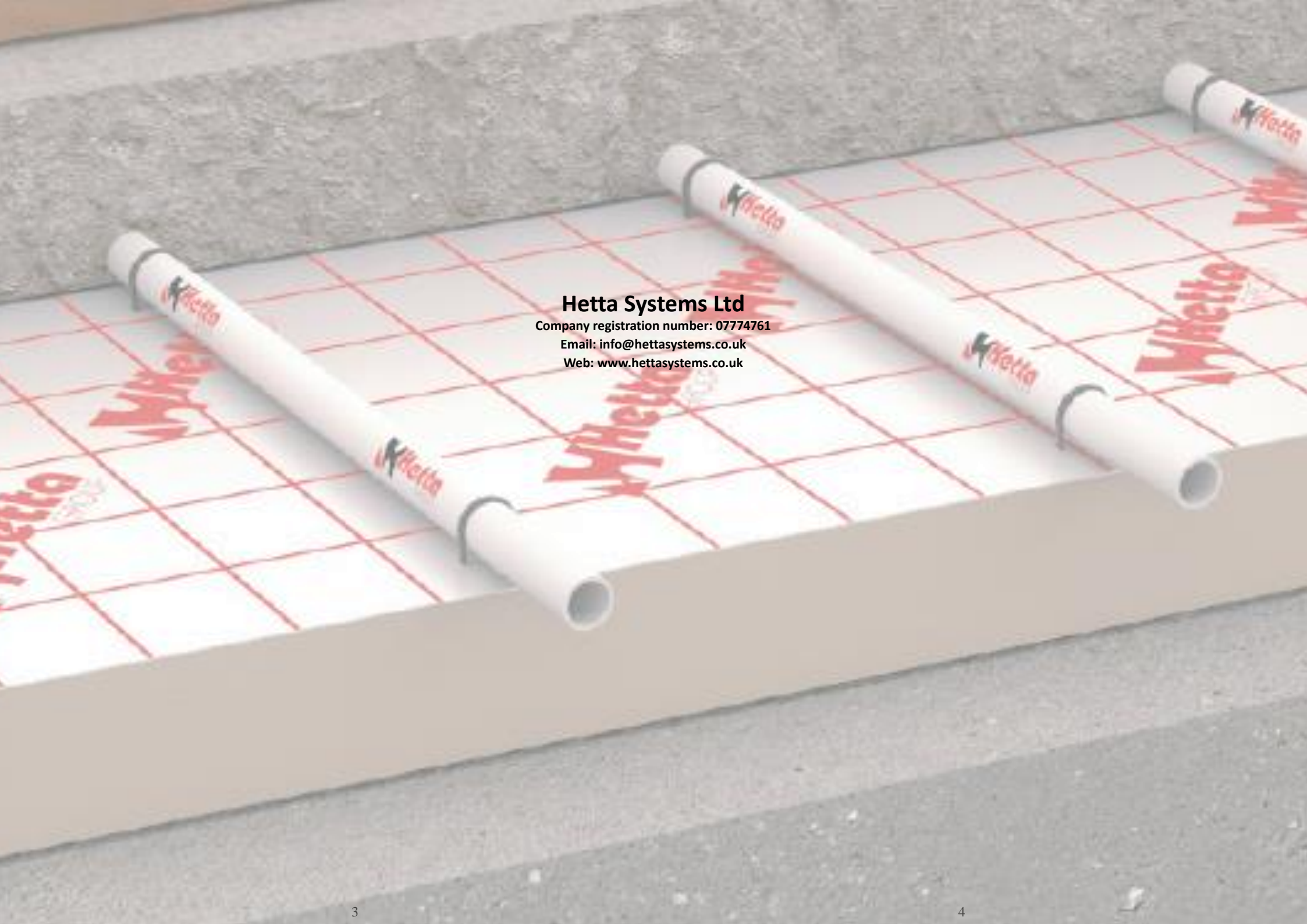
It is recommended that a qualified electrician is consulted or used for the installation of this thermostat and installed in accordance with the current IEE Wiring and Building Regulations

Installation

Warning: Wire strictly according to the wiring diagram; do not allow water, mud or other debris to enter the thermostat, as there can cause thermostat damage.

			
1, Open main control panel, with 3.5mm slotted point screwdriver. Along the top or bottom to press the tabs and gently pry open.	2, Connect back panel and power, wire as per wiring diagram, fasten back panel to cassette with M4 screw	3, Connect front panel and press to click into back panel.	4, Hang up with 30° to 2 hooks, press on the 2 bottom corners, stick on the upper shell, Installation finished.





Hetta Systems Ltd

Company registration number: 07774761
Email: info@hettasystems.co.uk
Web: www.hettasystems.co.uk