

Features

The TP7000 combines the functions of a time clock and room thermostat into a stylish, simple to use controller that allows the user to programme different temperatures for different times to match lifestyle demands. The TP7000 offers true 7-day programming, allowing each day to be set differently if so required. In addition, the unit can be set to 5/2-day mode allowing one set of programmes to be used for weekdays with a different set being available for the weekends

TP7000 is available in hardwired versions and in labour saving RF versions. Both hardwired and RF models offer up to six temperature changes each day and include the option of programming an "Off".

TP7000 offers several advanced features which can be selected by the installer at the time of installation, these include:

- Optimum start control : This feature uses internal temperature to calculate the time in advance of programmed time that the system must switch on in order to ensure that programmed temperature is achieved by the programmed time

- Chrono-proportional control: This feature defines the boiler cycle rate and the on/off times of the boiler within the cycle. This adds to comfort and improves boiler efficiency, particularly with condensing type boilers

RF models incorporate a digital FM radio transmitter which transmits a unique thermostat identity code which is learnt by the RX receiver during commissioning. Receivers, which are available in 1, 2 & 3 zone versions, can be mounted up to 30 metres from the thermostat and can be used to switch boilers, pumps or control valves

The range includes battery and mains powered versions in both built-in and remote sensor types, please refer to the data table for details and ordering codes

- 7-day or 5/2 day programming options
- up to 6 time and temperature events per day
- Available in hardwired and RF version
- Hardwired versions available for battery and mains operation
- Holiday programming mode and thermostat mode
- Many user overrides including programme extension

Installer settings - DIL switches

**All models**

Sw <sup>1</sup>	5/2 day programming		7 day programming
Sw <sup>2</sup>	Optimum start controller enabled		Optimum start controller disabled
Sw <sup>3</sup>	Chrono-proportional control		On/Off control

**TP7000, A, B, AB, M, MA, RF & A-RF models with 3/6 cycles per hour option**

Sw <sup>4</sup>	Chrono-proportional, 6 cycles / hour		Chrono-proportional, 3 cycles / hour
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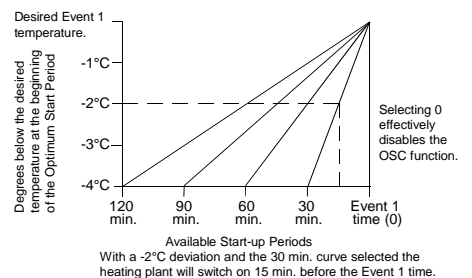
**TP7000C, CA, CM, CMA, C-RF & CA-RF models with 6/12 cycles per hour option**

Sw <sup>4</sup>	Chrono-proportional, 12 cycles / hour		Chrono-proportional, 6 cycles / hour
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Note: Sw<sup>4</sup> is only active if Sw<sup>3</sup> is set to chrono-proportional mode

Installer settings - Optimum Start Control

If DIL SW2 has been set to Optimum start control enabled, the Optimum start control setting must be made within the user programming mode. The table below shows the calculated time before the programmed time that the first event of the day will commence, dependant upon the difference in room temperature and the programmed temperature for the first event. Setting options are 0:00, (OSC disabled), 0:30, 1:00, 1:30 or 2:00)



Thermostat Specification

Thermostat Features	TP7000-RF		TP7000		TP7000M	
Order code - Built-in sensor model	087N741000	087N741400	087N740000	087N740400	087N740800	087N741900
Remote sensor model, (A models)	087N741100	087N741500	087N740100	087N740500	087N740900	087N742000
Control type - On/Off or chrono- proportional, 3/6 cycles per hour	•		•		•	
Control type - On/Off or chrono- proportional, 6/12 cycles per hour, (C models)		•		•		•
RF - wireless thermostat	•					
Hardwired thermostat			•			•
Digital clock type	24 hour, (can set to AM/PM mode by user)					
Selectable 7-day or 5/2-day operation	Yes					
Number of events per day	Up to 6					
Control temperature range	Off, 5 - 30°C, (can be set to Fahrenheit by user)					
Total switching differential (On/off mode)	<1.0°C					
Factory pre-set programme	Yes					
Programmable holiday mode	Yes, up to 99 days					
Installer selectable Optimum start control	Yes - Off, 30, 60, 90 or 120 minutes early switch on at set-point minus 4K					
Thermostat mode and frost mode	Yes, set to 1.0°C, but adjustable between 5 - 30°C					
Power supply	2 x AA/MN1500/LR6 alkaline batteries				230v, 50 Hz	
Memory backup	Capacitor during battery change for 1 minute				Rechargeable cell (see note 1)	
Switching action of output relay	N/A				SPDT	
Switch rating of relay contact, voltage and current	N/A				3(1) A, 230 volts	
Transmitter frequency (RF models only)	433.92 MHz				N/A	
Transmitter range (RF models only)	30 meters max.				N/A	
Dimensions (mm)	138 wide x 88 high x 28 deep					
Pollution Situation	Degree 2					
Rated Impulse Voltage	N/A				2.5Kv	
Ball Pressure Test					75 C	

Note 1): Unit must powered up for 6 days to charge cell before full back-up is available

Receiver Specifications (RF models only)

Receiver Features	RX1	RX2	RX3
Order Codes	087N747600	087N747700	087N747800
Single channel receiver module, works in conjunction with one thermostat	•		
Two channel receiver module, works in conjunction with two thermostats		•	
Three channel receiver module, works in conjunction with three thermostats			•
Transmitter code self learning feature	•	•	•
Receiver Frequencies	433.92 MHz		
Supply Voltage	220/240 Vac, 50 Hz		
Output relay current rating	3 (1) A		
Output relay configuration (commons linked internally)	1 x SPDT	1 x SPDT	1 x SPDT
Memory retention	Memory retained electronically on power down		
Dimensions (mm)	138 wide x 88 high x 32 deep		

Wiring Details

