i-temp terrier

terrier i-temp is just a part of the Terrier range of home heating products from Pegler Yorkshire.
www.pegleryorkshire.co.uk

i-temp terrier **Handbook**

Getting the best out of your **terrier i-temp**

The **terrier i-temp** has many additional functions that will help you get the best from the product and, in turn, increase the potential for greater comfort and savings.
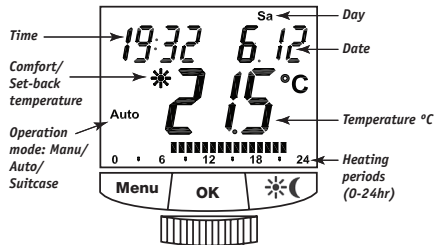

energy saving
recommended

Contents

What does it do?

The **terrier i-temp** is a programmable radiator control (PRC) that gives you time and temperature control of each individual radiator and is designed as an upgrade to existing thermostatic radiator valves. Heating the whole house when you don't need to increases your carbon footprint and can also cost you hundreds of pounds on wasted fuel every year – money that you could save with the **terrier i-temp**.

So – you only heat rooms at times when you need to!

Display

Time
Comfort/Set-back temperature
Operation mode: Manu/Auto/Suitcase
Sa — *Day*
Date
°C — *Temperature °C*
Heating periods (0-24hr)

Menu | OK | ☀☾

How does it work?

The **terrier i-temp** is a simple add-on to your heating system – you don't need to change the way your master programmer works as this will continue to control the overall heating times for the whole house. As such, **terrier i-temp** brings an extra element of control, allowing you to fine-tune your heating room-by-room.

One Zone setting

One Zone Dwelling System using 'Heat Save'
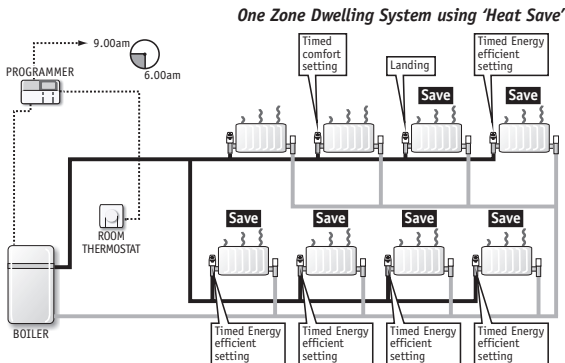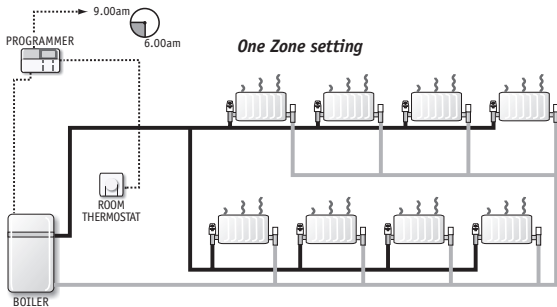
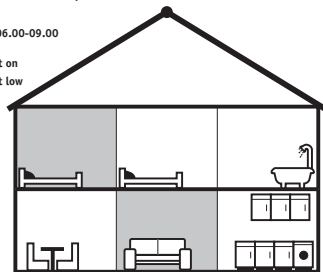## With the terrier i-temp you only heat rooms when you're using them!
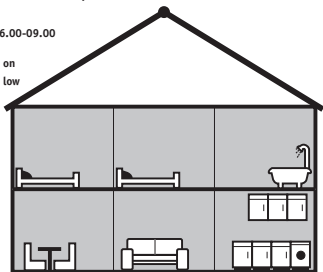
Before terrier i-temp

06.00-09.00
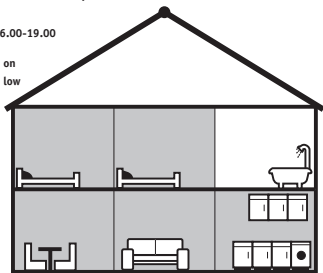Heat on
Heat low

After terrier i-temp

06.00-09.00
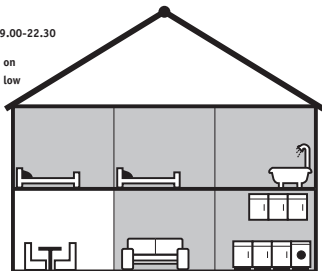Heat on
Heat low

Before terrier i-temp

16.00-19.00
Heat on
Heat low

After terrier i-temp

16.00-19.00
Heat on
Heat low

Before terrier i-temp

19.00-22.30

Heat on
Heat low

After terrier i-temp

19.00-22.30

Heat on
Heat low
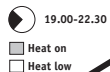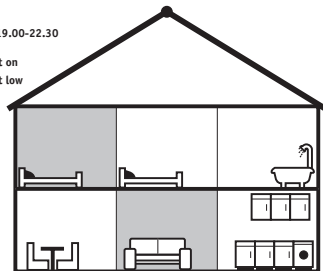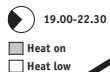
The diagrams below shows how much you could save in two typical scenarios.

Diagram 1: Bedroom
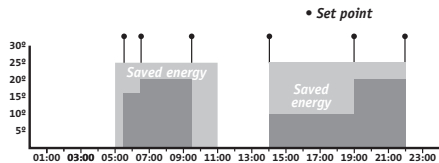
The vertical axis represents room temperature in ºC, and the horizontal axis represents a 24 hour clock. The period that **terrier i-temp** is programmed to turn the room's radiator 'on' is shown in darker grey, with the energy saved shown in light grey.

Diagram 2: Sitting room

KEY: Boiler on ▮ *i-temp* ▮ *Saved energy*
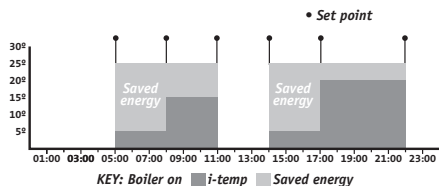
terrier i-temp PRC i30
VERTICAL HEAD

1	*LC display*
2	*Comfort/set-back key*
3	*Thumb wheel*
4	*OK key*
5	*Menu key*
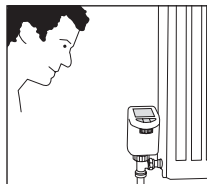
terrier i-temp PRC i35
HORIZONTAL HEAD

1 *LC display*

2 *Comfort/set-back key*

3 *Thumb wheel*
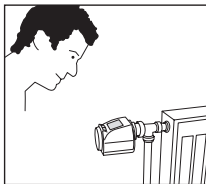
4 *OK key*

5 *Menu key*

Keys and functions

MENU

Menu key

Used to open the configuration menu. The Menu Key can also be used to go one step back within a menu. A sub-menu can be opened by using the OK Key.

OK

OK key

The OK Key is used to confirm/save settings and start the teaching-in function.

☀(

Comfort/Set-back key

Switch between comfort and set-back temperature.

IIIIII

Thumb wheel

To change temperature or settings.

Keys and functions

Key Functions	MENU	OK	☀☾
Short keystroke (<3 seconds)	Mode switch: ⌂ Manu Auto	Confirmation	Switch between comfort/ lowered temp: 21.0°C 17.0°C
Long keystroke (>3 seconds)	Configuration Menu: Pro DAT	Start Teaching-In: 20 (Time, 30 seconds)	Configuration of comfort/ set-back temperature: 21.0°C 17.0°C

Key Combinations	Combination	Function
Keystroke combination, both buttons pushed briefly	MENU ☀☾	Child-proof lock: LOC
Keystroke combination, both buttons pushed briefly	Open "Menu", select "rES" MENU ☀☾	Opens the hidden function: "tL."

Keys and functions

	Function	Comment
Thumb wheel	Temperature/ Time/Date Configuration menu	
Thumb wheel to the right (over max temp)	Heating pause, valve is completely open (Display: On)	In the Manu mode
Thumb wheel to the left (below min temp)	Close valve (Display: Off)	In the Manu mode

Operating modes

The radiator thermostat can be operated
in three different modes:

■ *Manual mode (Manu)*

The set-point temperature can be changed
with the thumb wheel. The **terrier i-temp** holds
the set temperature.

■ *Automatic mode (Auto)*

The temperature will be controlled automatically in
accordance to the stored weekly program. In
automatic mode the temperature can be modified at
any time using the thumb wheel. **terrier i-temp** will
return back to stored program at the next switching
time.

■ *Holiday mode/Timed override*

The **terrier i-temp** can be set to maintain a specific
temperature. This temperature will be maintained up
to a user defined date and time.

Programming

The programming will define temperatures for a time
range from 0:00 until 23:59. You can decide if you want
to programme this time frame for a single day, all work
days, the weekend, or all 7 days at the same time.

After opening the Menu, "Pro" will appear as first
option. After opening "Pro", you can pick 1 out of 2
preset programmes or customise the current programme:

- Open Menu
  - Choose "Pro"
    - bEd (Bedroom programme)
    - Sit (Sitting Room programme)
    - CUS (customise programme)

Customising programmes

- Select from programmes
  - One day (Mo, Tu, We, Th, Fr, Sa, Su)
  - Weekdays (Mo – Fr)
  - Weekend (Sa – Su)
  - Week (Mo – Su)

- Afterwards, define a temperature for a time
  frame from 0:00 to 23:59 – the programme
  will be the same for all days picked before

Programming

- The programme displays the start and
  end time of the first period
  - Eg. 00:00 06:00

- You can change the end time (6:00)
  - Afterwards the temperature needs
    to be set for this time period, Eg. 17°C

- The next phase will be displayed, starting
  with the previous end time
  - Eg. 06:00 17:00

- Afterwards the temperature needs to be
  set for this time period
  - Continue until temperatures are defined
    from 00:00 until 23:59

Preset programmes

After a programme has been picked, this will override
the customised programme (CUS). Also available are
preset programmes for bedroom (bEd) and sitting
room (Sit) locations.

At least 2 programmes will be available as a preset.

1. Bedroom (bEd) – default / cannot be changed
2. Sitting Room (Sit) / cannot be changed
3. Customise Programme (CUS) / this point
   allows you to customise the preset programme

Bedroom programme (default)

Monday–Friday	Saturday–Sunday
00:00–06:00 5°C	00:00–07:00 5°C
06:00–07:00 17°C	07:00–08:00 17°C
07:00–09:00 19°C	08:00–10:00 19°C
09:00–19:00 5°C	10:00–19:00 5°C
19:00–20:00 17°C	19:00–20:00 17°C
20:00–23:00 19°C	20:00–23:00 19°C
23:00–23:59 5°C	23:00–23:59 5°C

Sitting room programme

Monday–Friday	Saturday–Sunday
00:00–07:00 5°C	00:00–07:00 5°C
07:00–10:00 19°C	07:00–09:00 19°C
10:00–15:00 5°C	09:00–12:00 21°C
15:00–18:00 17°C	12:00–17:00 17°C
18:00–22:00 21°C	17:00–22:00 21°C
22:00–23:59 5°C	22:00–23:59 5°C

Simple optional settings

Sofa programming

As a feature, you can programme the **terrier i-temp** before the installation or removed from the valve.
HOW?
After inputting the date time and programme, "Ins" will appear, wait until the "O" stops, then follow the installation process.

Increasing your temperature ☼ or reducing the temperature ☽

The **terrier i-temp** uses the concept of a comfort and set-back temperature. These temperatures are pre-defined as a factory default but you have the flexibility to change these two temperature points to suit your needs.
HOW?
By pressing ☼☽ once or twice the temperature will alternate and switch between these two higher (comfort) and lower (set-back) temperature points.

To set your own comfort and set-back temperature simply hold ☼☽ for 3 seconds, select a comfort temp, press "OK", then select your set-back temp and press "OK".

Child-proof lock

A key combination activates a key lock.
HOW?
Select "MENU" and ☼☽ together. The same combination deactivates the key lock.

Manual temperature adjustment

When you want to operate the **terrier i-temp** in manual function without using the time element.
HOW?
Press "MENU" to enter manual mode, then rotate the thumb wheel to your desired temperature.

Holiday/Timed override

If you want a fixed temperature to be maintained for a set period of time, for example while you are on holiday or during a party, make use of the Holiday/Timed Override function. The set temperature will remain in force until the user specified time. After which, the **terrier i-temp** will adopt Auto mode.
HOW?
Press and release the "MENU" button twice until the suitcase symbol (🛄) appears on the display. Use the thumb wheel to set the end of the time period. Press "OK" to confirm. Use the thumb wheel to set the date. Press "OK" to confirm. Use the thumb wheel to set the temperature;

Simple optional settings

press "OK" to confirm. The display will flash to confirm your settings.

Heating break (summer)

In the summer-time, most heating systems are turned off. During this time, the valve can be opened completely to reduce battery consumption.
HOW?

Select "MENU" to activate manual mode, turn thumb wheel clockwise until "ON" appears. To revert back select "MENU" and switch back to auto or turn the thumb wheel anticlockwise.

Valve closing

The valve can also be completely closed, however the frost protection remains active.
HOW?

Select "MENU" to activate manual mode. Turn thumb wheel anticlockwise until "OFF" appears. To revert back, select menu and switch back to auto or turn the thumb wheel anticlockwise.

Automatic settings

Automatic time adjustment (d5t)
The **terrier i-temp** will automatically adjust itself when time settings change between British Summer Time and Greenwich Mean Time.

Automatic open window detection (Air)
terrier i-temp recognises a sudden fall in temperature, as caused by a window being opened, and saves energy by automatically reducing the temperature for 15 minutes. The window-symbol displays while this 'ventilation function' is activated.

Automatic frost protection
If the room temperature drops below 5°C, **terrier i-temp** switches the radiator on at a 5°C temperature (assuming the heating system is on). This feature prevents pipes or radiators freezing in extreme cold and prevents condensation forming.

Automatic self check (decalcification) (dEt)
An automatic self test takes place once a week. This ensures that the connections are aligned. This feature cannot be deactivated.

Automatic settings have the ability to be modified.

Call our technical helpline: 0800 156 0050

Advance setting options

Temperature compensation offset (toF)

terrier i-temp measures the temperature at the location of the radiator, but other parts of the room may be warmer or colder. To compensate for this, you can set a temperature offset of ±3.5°C. If, for example, **terrier i-temp** is set to 20°C and a temperature of 18°C is measured elsewhere in the room, an offset of -2.0°C should be configured.

HOW?

Press and hold down "MENU" for more than 3 seconds. Use the thumb wheel to select the "tOF" menu item. Confirm with "OK". Use the thumb wheel to modify the temperature (offset). Press "OK" to confirm.

Temperature limitation (tLi)

This is used in situations where you may want to limit the maximum temperature that can be set for a particular room.

HOW?

1 Hold "MENU" for 3 seconds until "Pro" appears
2 Use thumb wheel to scroll to "reS"
3 Hold "MENU" and ☼ ☽ at the same time
4 "tLI" will appear, adjust maximum temperature to your choice.

Restore factory settings

You can reset the actuator to its initial state manually. This will clear all the settings that have been made manually.

HOW?

Press and hold down "MENU" for more than 3 seconds. Use the setting thumb wheel to select the "reS" menu item. "ACC" will appear. Confirm with "OK".

Advance setting options

Radio functionality – learning device

terrier i-temp is 'future-ready' with the ability to integrate with accessories such as window sensors or remote controls, and can be programmed from a home computer to four such components using the teaching-in function.

HOW?

The teaching in function can be activated by pressing "OK" for 3 seconds. The display then shows a countdown of 30 seconds; during this time **terrier i-temp** 'listens' for new devices. If a device such as a remote control emits a signal with the specific protocol during this time, **terrier i-temp** will have "taught-in" this remote control and will accept commands from it.

Advance setting options

See Website for further details
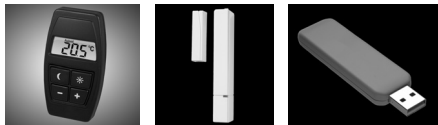
Remote control, window sensor and USB PC programming

Error codes

Error code	Problem	Remedy
	Battery power too low	Replace batteries
F1	Valve Actuator responding sluggishly	Check installation, inspect heating valve
F2	Adjustment range too large	Check actuator fastening
F3	Adjustment range too small	Check heating valve
F5	4 wireless components already taught in	Teach out devices

Note: At 11.00 every Saturday, the **terrier i-temp** *performs a weekly de-scaling function to prevent valve calcification. "CAL" will appear on the display. This is not an error code.*

Changing the batteries

Remove the battery compartment cover.

Insert 2 new AA/LR6/Mignon batteries into the side battery compartments, ensuring they are the right way round.

Reattach the battery compartment cover. New alkaline batteries have a life of approximately two years. A battery symbol will indicate when the batteries need to be replaced.

After removing the old batteries, please wait approximately 1 minute before inserting the new ones. **This device does not support operation with rechargeable batteries.**

- Never recharge standard batteries.
- Doing so will present a risk of explosion.
- Do not throw the batteries into a fire.
- Do not short-circuit batteries.
- Used batteries should not be disposed of with regular domestic waste. Instead, they should be taken to your local battery disposal point.

Abbreviations

Pro	Programming of week schedule
bEd	Bedroom programme
Sit	Sitting room programme
CUS	Customisation of programme
dAt	Configuration of date and time
Air	Ventilation temperature and time
dEL	Delete – taught-in components can be deleted from the memory
POS	Valve position
DEC (CAL)	Configuration of decalcification time
dSt	Daylight Saving Time; de-/activation

Abbreviations

LOC	Child-proof lock
OFF	Valve closed
On	Heating pause
dAY	Displayed during programming of week schedule
tOF	Temperature offset
reS	Reset – factory settings
LEA	Learning – Teaching-in mode
tLi	Temperature limitation (hidden function)

Display symbols

	°C	Temperatures are displayed with °C
☼	Sun	Comfort temperature
☽	Moon	Set-back temperature
	Manu	Manual mode
	Auto	Programmed week schedule
💼	Suitcase	Holiday/Party function
▭	Window	During ventilation

Technical information

Fixed values

Temperature range: 5–29.5°C
Temperature resolution: 0.5°C
Frost temperature: 5°C
Time range: 00:00–23:59
Display illumination: 10 seconds (after using key/thumb wheel) blinks for 1.5 seconds (to confirm signal)
Week Programme: 7 days, each day with 7 switch points
Teach-in time: 30 seconds
Temperature unit: °C

Defaults

Comfort temperature: 21°C
Set-back temperature: 17°C
Ventilation temperature: 12°C
Ventilation time: 15 minutes (time the temperature lowers during ventilation; only applicable w/o window contact)
Offset temperature: 0°C
Decalcification: Sa., 11:00
Automatic daylight saving time adjustment: activated

Technical properties

|	
Supply voltage:	3 V
Max. current consumption:	100 mA
Batteries:	2x LR6 batteries (Mignon/AA)
Battery life:	Approx. 2 years
Display:	LC display
Receiver frequency:	868.3 MHz
Housing dimensions:	63 x 70 x 99mm (W x H x D)
Connection:	M30 x 1.5
Ambient temperature:	+5 to +55°C
Max. surface temperature:	+90°C (of radiator)
Linear travel:	4.2mm
Spring force:	Max. 80 N

We reserve the right to make any technical changes that constitute an improvement to the device.

Conversion list

Branding	Branding	Adaptor
Pegler Yorkshire	Terrier	Not required
Pegler Yorkshire	Mistral	Not required
Pegler Yorkshire	Belmont 4	Not required
Pegler Yorkshire & Wolseley	Bulldog	Not required
Altechnic	Ecocal	Not required
B & Q	Regis	Not required
BSS	BOSS TRV	Not required
Comap	Westhern 5 TRV	AD2
Comap	Senso TRV	AD2
Comap	S2 TRV	AD2
Danfoss	RAS C2	AD1
Danfoss	RAS D2 Revolver	AD1
Danfoss	RLV-D D Pushfit	AD1
Drayton	RT212	Not required
Drayton	RT414	Not required
Drayton	TRV4	Not required
Drayton	TRV3	AD3

Branding	Branding	Adaptor
Grahams	Altech	Not required
Grasslin	Tower TRV REV	Not required
Honeywell	Rad plan	Not required
Honeywell	VT117E	Not required
Honeywell	VT200E	Not required
Honeywell	VT15	Not required
Myson	TRV 2 Way	Not required
Myson	Petite	Not required
PTS	Boss Supreme	AD2
PTS	Boss Classic TRV	Required
SALUS	SALUS TRV	Not required
Screwfix	Unbranded TRV	Not required
Siemens	TRV MTN51GB TRV	Not required
Trago Mills	Unbranded TRV	Not required
Travis Perkins	IFLO	Not required
Travis Perkins	IFLO Contract	Not required

AD1

AD2

AD3
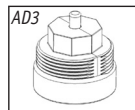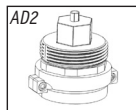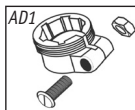
Installation – using adaptors

An example of installation using adaptor AD1.

1 *Remove the valve head by unscrewing the fixing ring.*

2 *Select the appropriate adaptor for the thermostatic valve and attach to the valve body. Note: you will need to open the adaptor with a screwdriver for it to fit fully onto the body*

3 *Use the small bolt and nut to secure the adaptor to the body.*

4 *Place the i-temp head onto the valve body.*

5 *Turn the fixing screw by hand until tight. Note: Do not use grips or other tools which may damage the fixing ring.*

General information

Valve installation
We recommend that a **competent installer** is used to install valve bodies.

Fitting

1. Thoroughly clean any pipe work to be connected to the valve
2. Drain down existing system, connecting a hosepipe to the lowest drain off point available
3. Screw ½" BSP tail into radiator tapping, using suitable jointing material, e.g. PTFE tape
4. Connect valve body to tail and tighten nut
5. Cut and fit copper tube to valve body – tightening nut and cone
6. Remove manual shut off cap and store safely

PLEASE NOTE:

To avoid the problem of hydronic (water flow) noise, it is recommended that the differential pressure valve should be fitted to any system with TRVs (Pegler order code for differential pressure valve 678021/22mm) will be suitable for most domestic installations. Larger sizes are available if required.

What is a thermostatic radiator valve (TRV)?

TRVs sense the air temperature around them and regulate the flow of water through the radiator which they are fitted to. They do not control the boiler.

They should be set at a level that gives you the room temperature you want. These settings may have to be different in each room, and you should set the TRVs to suit each room and then leave them to do their job.

Turning a TRV to a higher setting will not make the room heat up any faster. How quickly the room heats up depends on the boiler size and setting, and radiator size. Turning a TRV to a lower setting will result in the room being controlled at a lower temperature, and saves energy.

TRVs need a free flow of air to sense the temperature, so they must not be covered by curtains or blocked by furniture.

TRVs cannot turn off the boiler when the whole house is warm. To do that, you will need a room thermostat as well. The radiator in the room with the room thermostat should not normally have a TRV, but, if it does, keep the TRV on the maximum setting and adjust the room thermostat as explained with the instructions.