

# Time Programming With E-Pro

Quick, easy and effective – with the ingenious E-Pro stick



Stiftung  
Warentest

test



**GUT (2,0)**

E-Pro mit Programmierstick

Im Test: 7 programmierbare  
Heizkörperthermostate

Ausgabe 5/2008

To be precise.



# E-Pro Makes Time Programming So Easy And Yet So Effective



Control panel

Setting for normal temperature

Thermostatic head of your choice

2 standard batteries LR6



E-Pro in the kitchen. A pleasant working temperature is needed here just when the kitchen is being used – a typical case for E-Pro.



E-Pro in the bathroom. Usually a bathroom's cosy and inviting temperature of 24 degrees Celsius is only required in the morning and then again in the evening. For the time in between, E-Pro sees to the implementing of an energy-saving set-back phase.



With the innovative invention of E-Pro, HEIMEIER has created a completely new dimension to the world of time programming for thermostatic valves.

E-Pro quite simply ensures an individually controlled and automatic regulating of room temperature, which can be mastered by everyone. It's simple and so straightforward but is nevertheless extremely effective.

E-Pro is the perfect partner for HEIMEIER thermostatic valves. Amazingly, this time adaptor allows an additional amount of up to 20% of energy to be saved. And when the current astronomically high heating costs are considered, it is undeniable that the cost of E-Pro is then very quickly recouped.

E-Pro is a time adaptor that enables room temperature to be automatically dropped or again raised by as much as 4 °C at any one selected time. Consequently temperatures can be optimally adjusted to suit the individual ways and times in which rooms are used. And all this happens without having to manually turn up or down the thermostatic valve. It really is the ideal solution for rooms such as the bathroom, the kitchen, bedrooms and the nursery, which are only used at certain times and where, thus, energy is frequently wasted.

A thermostatic valve plus E-Pro – a combination which not only saves a great deal of energy but is also an attractive feature in itself. And when married together with modern radiator styles, the result is a veritable eye-catcher worthy of true designer status.



E-Pro in the nursery. While the children are away at school, E-Pro drops the room temperature automatically. And when it's time to do homework after school, the room is once again pleasantly warm.

# No Confusing Display, Just A Set Of Simple Buttons



- 1** Sliding switch – On/Off
- 2** Light emitting diode (LED) confirming operation process
- 3** Operational status indicator – Red/Blue
- 4** “Set-back operation” button
- 5** “Normal operation” button



This must be the simplest method of programming: by pressing the button below the red dot, the period of normal heating commences. This then ends when the button below the blue dot is operated.



The On/Off sliding switch allows programming to be cancelled at any time. Such a practical feature when guests stay longer of an evening. In this way the room remains comfortably warm although normally the programming would have triggered off a set-back phase. But as soon as the sliding switch is moved to the position marked I (“On”), the previously set program immediately restarts.



E-Pro requires no display with confusing operating processes that would turn time programming into a complicated and baffling procedure. E-Pro has been so designed that programming is as easy as ABC and can be carried out virtually "as you pass by."

Using E-Pro means that the programmed temperature setting always takes place exactly at the required time – and yet you do not have to actually state a time when programming the adaptor. The ingenious E-Pro with its sophisticated system functions without such assistance.

If you wish to cancel the programmed details for a certain time (e.g. because a few days will be spent at home), this will present no problem for E-Pro. The sliding switch simply has to be moved to the "Off" position – and then room temperatures will be permanently regulated to values of normal heating operations just by the thermostatic valve in its own right. When E-Pro is then at a later date once again activated by sliding the switch to the "On" position, the program, which was originally set, automatically resumes operation.

E-Pro – the simplest method of operating, which can be mastered by absolutely everybody from the word go. Constantly reading through the instruction manual (a typical phenomenon in the case of countless electronic regulating systems) is really not necessary when you are kitted out with HEIMEIER's E-Pro.

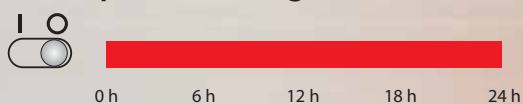


One big advantage with E-Pro is the fact that it has no confusing or complicated display packed with information and endless graphics. And such a user-friendly system makes saving energy particularly easy.

# Just Push A Button! And you'll always have the right room temperature

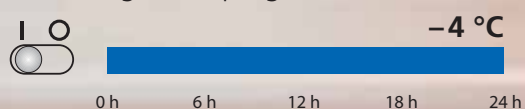


## Set temperature is regulated



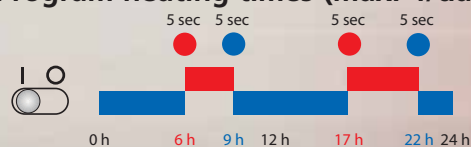
## Set temperature is reduced

No heating times programmed

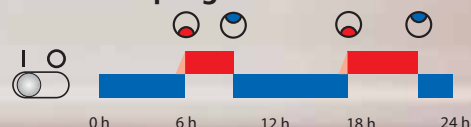


When the sliding switch is moved to the "Off" position and E-Pro is not in operation, the temperature aims for that degree which has been set on the thermostatic head (above). As soon as the sliding switch is positioned at "On", E-Pro starts functioning in the set-back mode (below), i.e. as long as no programming is carried out.

## Program heating times (max. 4/day)



## The stored program



The standard set-back time is only cancelled when programming takes place. In order to do this, first of all a period of heating has to be started by pushing a button (for 5 seconds). Then by pushing the button situated beneath the blue dot (also for 5 seconds), the heating time is terminated. Up to 4 heating periods per day can be programmed in this way.



Programming for heating periods and also for the returning to a set-back phase is carried out via 2 buttons located on the control panel on the top surface of the time adaptor. By pressing the red button, the room temperature will be raised to the normal heating value set on the thermostatic head. However, when the blue button is pressed, the room temperature is once again lowered by as much as 4 degrees Celsius.

These push-button operations are in actual fact the way in which the time adaptor is programmed. Because on all the following days at exactly the same time, E-Pro automatically repeats either the raising or lowering of room temperature as the case might be. It can do this as it has "learnt" the required regulating of room temperature through the push-button process.

Programming just by pushing a button. Virtually "as you pass by." It doesn't get any easier.

Incidentally, after programming has been carried out, the commencement of the heating period gets underway 30 minutes earlier than stipulated by the push-button order. This means that the room is gradually warmed up in order to reach the required temperature for the heating time scheduled.

In this way up to four heating or set-back programs can be selected per day.

It is also easy to know in which mode E-Pro is operating at any one time as this is always shown on the operational status display (Red/Blue) on the control panel.



The operational status indicator permanently displays whether E-Pro is functioning in heating mode (red) or in the set-back one (blue).

# A Different Routine At The Weekend? No Problem!



DX-Kopf

Septembre September September 08

Montag Monday Lundi	Dinstag Tuesday Mardi	Mittwoch Wednesday Meycredi	Donnerstag Thursday Judi	Freitag Friday Vendredi	Samstag Saturday Samedi	Sonntag Sunday Dimanche
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28



E-Pro also allows an individual weekly schedule to be fixed. Consequently sleeping longer on the weekend (with the heating period beginning later) can be taken into consideration and energy thus saved.

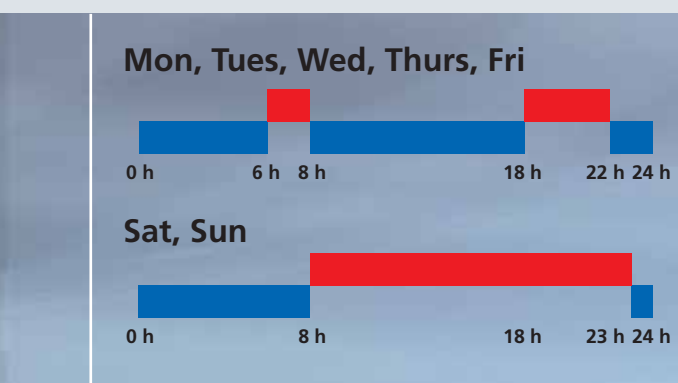
A week's programming is set by moving the programming switch located under the housing cover to the position marked 1.....7. Then up to 4 different heating periods can be programmed for each day for a whole week.



Instead of programming heating periods just for one day, E-Pro offers the option of fixing a heating program stretching over a whole week. This means you can really take full advantage of, for example, a different routine during the weekend (sleeping longer, children not at school, etc.).

In order to set such a schedule, the programming switch located under the adaptor's housing cover has to be changed from the "day" to the "week" position.

The principle of programming, however, remains the same and it is just as easy as the programming procedure for a single day. Every push-button "order" for a period of seven days will be learnt and saved by E-Pro. And then the made-to-measure regulating pattern can be repeated every week.



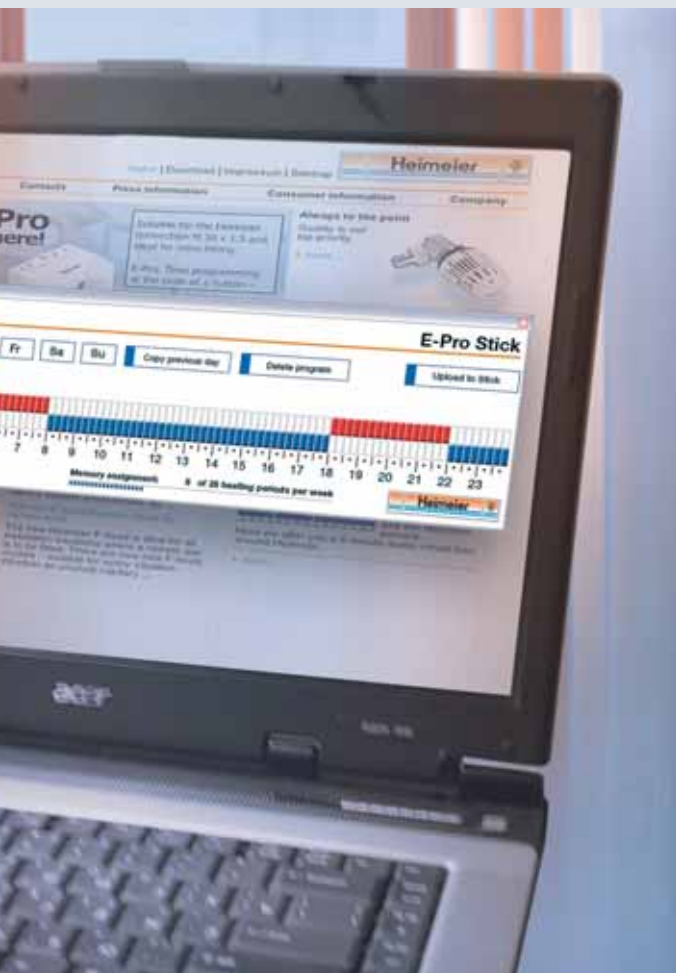
A typical example of a week's programming. Getting up earlier on weekdays or going to bed later on Saturday and Sunday have been taken into account here.

# Even Quicker, Even Easier: Programming with the E-Pro stick



The E-Pro stick enables programming to be carried out also on the computer. And particularly when it comes to programming for the week, the E-Pro stick constitutes a really convenient and quick solution. Heating time frames are entered on the computer in a flash and then saved on the E-Pro stick.

Finally the E-Pro stick is inserted into the socket on the underside of the E-Pro adaptor in order to transfer the programmed data to E-Pro itself.



E-Pro is so versatile. And therefore it is also possible to program this time adaptor in an alternative way, which is still most convenient and tremendously quick. Enter the E-Pro stick. Thanks to this newly developed device, time frames that have been entered up on a PC can be swiftly and easily transferred to the E-Pro adaptor.

You just have to put into your computer the CD that is supplied with the E-Pro stick. All the necessary steps for programming in this way are then clearly demonstrated and are so easy to put into practice. Alternatively the program can also be downloaded from the HEIMEIER website ([www.heimeier.com](http://www.heimeier.com)).

A day's or a week's program – the easy-to-read set of symbols will fast-track you to the required time frame. Simply connect the E-Pro stick to a USB port, transfer the data onto the stick and then plug in this ingenious stick into the purpose-designed socket on the lower side of the E-Pro time adaptor. It just remains to press the stick's button – and the E-Pro has then been fed with your own personalised time program.


The E-Pro stick – an ideal product for houses or buildings equipped with several E-Pro's. In this way all rooms fitted with an E-Pro time adaptor can be programmed in a flash.

In addition to this quick and simple programming method, the E-Pro stick also offers a wealth of other functions. One example would be the way it can lock the control panel so that the buttons cannot be operated, thus avoiding any unplanned changes to the programming. It is also possible to use it to save on your PC tried-and-tested time schedules for individual rooms. In this way, for example, time schedules for the children's school holidays can be saved and then, when needed, can be once again quickly activated at short notice.

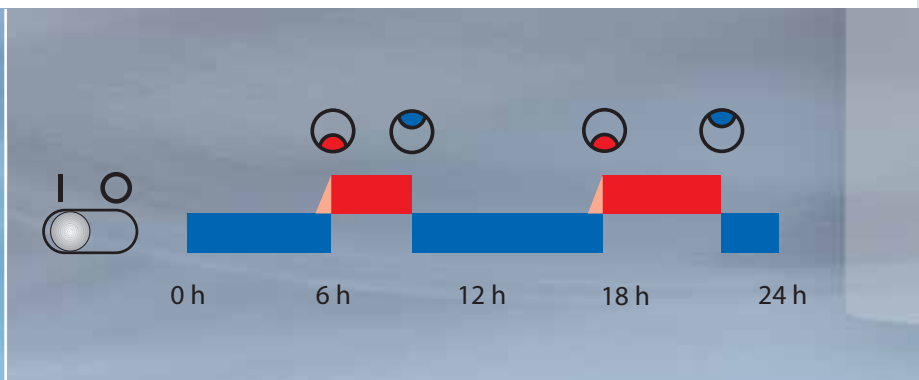
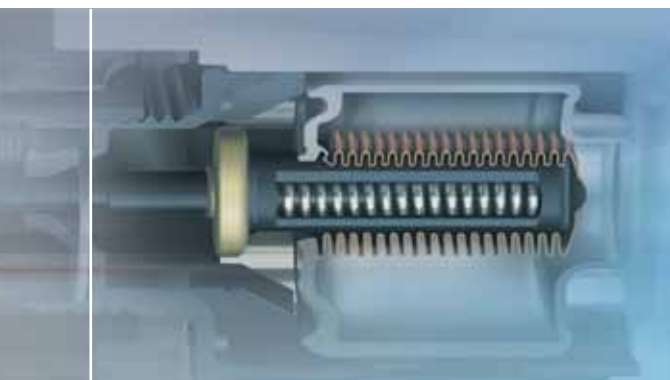
And, incidentally, it must be mentioned that the German consumer magazine, Stiftung Warentest, believes the combination of E-Pro and the E-Pro stick offers excellent benefits. During the latest tests carried out (5/2008), this HEIMEIER combination shot into the top group of all the seven products tested, achieving the overall rating of "GOOD".



Push-button programming or using the E-Pro stick method – our E-Pro adaptor offers you the choice. But both systems have one thing in common: they are extremely easy to operate.

	<b>GUT (2,0)</b> E-Pro mit Programmierstick
	Im Test: 7 programmierbare Heizkörperthermostate <b>Ausgabe 5/2008</b>

# Extremely Low Noise Levels – And Batteries Last For 5 Years



It is the liquid-filled sensor in the thermostatic head which makes it all possible: the temperature is permanently regulated – but without any disturbing motor noise.

E-Pro's motor only has to run when heating periods are either begun or ended. The program shown above, for example, would only require the motor to operate for less than 10 seconds in a period of 24 hours.



In contrast to many electronic regulating systems, E-Pro's motor is only required to be in operation during the programmed switching-over points. This means that the constant hum of a motor just isn't the case with E-Pro.

Another advantage of the combination of thermostatic valve and time adaptor is that this does not require temperature measuring in any predetermined time frame. The sensor in the thermostatic head can constantly carry out this task – even without the need for any form of external energy. And such unbroken regulating of temperature is the kind of regulating that is especially accurate.

Similarly no energy is needed to operate the valve. This procedure also occurs without any external source of energy, thanks to the link up with the thermostatic valve.

The HEIMEIER thermostatic valve, well-known for its high restoring force, also means that E-Pro can work well without the so-called "anti-limescale protection function." E-pro does not require the regular opening and closing of the valve in order to avoid sticking after a longer shut-off phase.

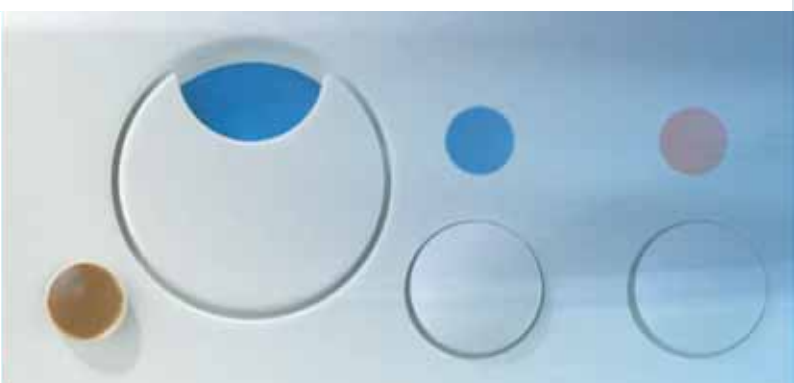
And the final icing on the cake is the following, very pleasant side-effect of all this: the minimal period when the motor is in use – thanks to the regulating of temperature without the need for any external energy or the fact that E-Pro can dispense with the anti-limescale function – means that batteries enjoy extremely long durability. Perfect regulating of temperature for approximately five years – only after such a long time do you first even have to start thinking about renewing the batteries.



The minimal period when the motor is in operation is very advantageous as regards battery consumption. New batteries only have to be considered after 5 years.

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# Saving Energy With E-Pro: A course of action that pays off



During periods of ventilation, the thermostatic valve should be turned down. If this is not done and the ambient temperature consequently drops suddenly as a result of the cold air streaming in, E-Pro will automatically begin operating in the set-back mode. With the result that energy is saved.

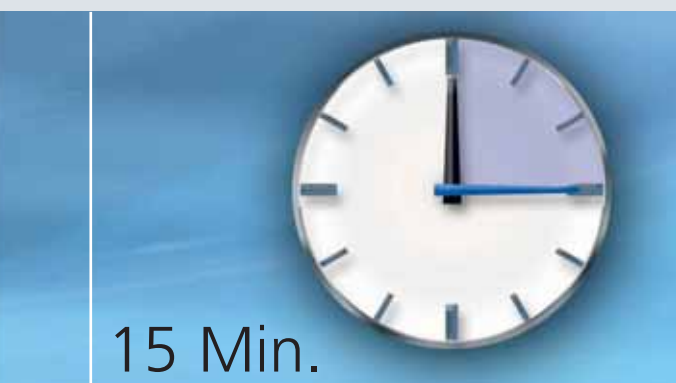
At the same time as E-Pro drops down a gear, the LED on its control panel starts flashing in a rhythm of 8 seconds and the operational status indicator displays the blue-coloured field.



Model calculations have demonstrated that a set-back phase lasting 9 hours is able to achieve an energy saving of 10 per cent. This is the clear proof that anyone who consistently incorporates E-Pro into his heating arrangements and who programs such a heating system to suit prevailing conditions of use does not only contribute greatly towards protection of the environment but also saves himself a great deal of money, especially when one considers today's astronomical energy costs.

E-Pro also saves a considerable amount of energy when people forget to turn back the thermostatic valve when they give a room a quick, short blast of air, as is so frequently the case. But E-Pro recognises and registers a sharp and sudden drop in ambient temperature when the room is given a quick airing and the device reacts accordingly. It counters such a situation for at least 15 minutes by implementing its emergency program, i.e. it automatically and independently switches over to set-back mode for ca. a quarter of an hour. This kind of quick sharp burst of fresh air should in any case not last any longer than that.

During the set-back phase the operational status indicator is blue and the LED flashes on briefly every 8 seconds. This warning signal is intended to be a reminder to turn down the thermostatic valve, which actually makes sense in such a situation. It also serves to remind people that the quick sharp burst of fresh air (which is only supposed to last for a few minutes) should soon be ended.



15 Min.

The set-back period initiated as a result of the open window recognition system is terminated after 15 minutes. E-Pro then returns to operating along the lines of the pre-set program.

# Swift And Simple: Mounting is so straightforward



## Mounting:

- 1 Screw the connecting piece onto the valve
- 2 Set the control unit in position and click into place
- 3 Mount the thermostatic head and insert batteries
- 4 Slide cover over the thermostatic head and press, i.e. activate, the control unit



E-Pro can be used in conjunction with conventional radiators...



...and also with those having integrated valves.



E-Pro fits all HEIMEIER thermostatic valve bodies and all radiators with integrated valves that have the M30 x 1.5 HEIMEIER connection. Existing HEIMEIER thermostatic heads can continue to be used; they simply have to be unscrewed for the mounting of E-Pro.

#### For all heads

Because basically all the thermostatic heads found in the HEIMEIER range can be used in combination with E-Pro, every possible wish and requirement regarding sensors, colour schemes etc. can be fulfilled.

And thanks to the fact that HEIMEIER has never altered the size of the connection linking valve and head, the chances are very great that you can begin using E-Pro very quickly and therefore begin saving energy immediately. In Germany, for example, E-Pro can be combined with approximately every second thermostatic valve – that's how great HEIMEIER's share is in the number of valves currently in operation in buildings.

#### Cleverly designed for elegance

The implementation of a connecting piece enables the mounting of E-Pro to be carried out as near as possible to the valve or to a radiator with an integrated valve.

Attractive housing covers the battery compartment and also cleverly disguises the locking ring, i.e. the lower section of the thermostatic head. Only the hand wheel cap remains visible. And it is possible to lay the capillary tube of heads with remote sensors under the covering.

- **Connection M 30 x 1.5**
- **Ideal for retrofitting**  
**Existing heads can continue to be used**
- **For all HEIMEIER heads with remote sensors, Design Line**



E-Pro can also be easily implemented in conjunction with thermostatic heads with remote sensors or remote dials.

# Ideal For Retrofitting: E-Pro is the energy-saving turbo for existing thermostatic valves



Retrofitting old thermostatic valves with E-Pro presents no problem.  
After unscrewing the thermostatic head...



...mounting is carried out in exactly the same way as is done with new installations. Mounting the E-Pro time adaptor is very straightforward and requires only a matter of minutes.



E-Pro is not only the natural accompaniment for thermostatic valves that are being newly fitted. It is also ideal for the retrofitting of existing HEIMEIER thermostatic valves.

Because of the very long service life of HEIMEIER thermostatic valves, it makes sense to continue using the existing thermostatic valve when fitting the E-Pro device in order to optimise the regulating of room temperature.

This is particularly true in combination with remote sensors or remote dials. In such cases E-Pro really is the perfect solution since, apart from adding the time adaptor device, absolutely nothing has to be altered. Costly or time-consuming working on a special system for the regulating situation is not necessary. Everything remains as reliable and dependable as it always was. And this is another factor that saves expense.

This combination of old and new – after quick and easy installation (unscrew the thermostatic head, mount E-Pro, screw back the thermostatic head) – immediately turns into an energy-saving turbo machine, which very soon proves its weight in gold.

Should the thermostatic valve be older than 20 years, then the installing of a new head would be a consideration. Not only would this jazz up the appearance of the overall fixture but it would also improve the regulating accuracy of the device as the new thermostatic heads have made great advances over those of earlier generations. Yet another aspect of the HEIMEIER product range that leads to the additional saving of money.



Even if the existing thermostatic valve does not have the M 30 x 1.5 connection, in most cases E-Pro can still be fitted by using adaptors.

To be precise.



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