




EG 502

programmable thermostat

operating principle


the EG 502 programmable thermostat controls the heating system on a "reduced  " and "comfort  " temperature principle, according to a programme set by the user ; in case of a long absence an "anti-frost level  " can be manually selected.



description


the EG 502 programmable thermostat can be associated with :

- EK 081 fixed ambient probe
- EK 082 adjustable ambient probe
- EK 083 universal probe

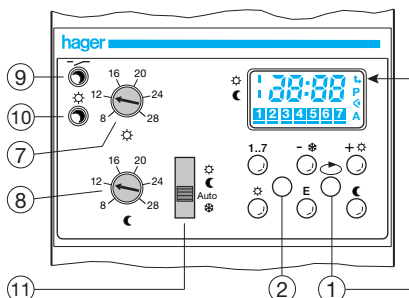
the EG 502 programmable thermostat has two main functions :

- a thermostat comprising :
 - 2 potentiometers for setting comfort and reduced temperatures (7) and (8) ;
 - 2 indicators to show output switching (9), and to show when the unit is working on the comfort (10) setting ;
 - override selector (11) switch to allow permanent setting of comfort, reduced, anti-frost temperatures or auto-mode.
- a programmer to establish the automatic operating cycle ; it comprises 8 keys : 6 function keys, 1 selection key  (1) to select 4 modes :

- time setting 
- programming **P**
- display 
- automatic **A**

as well as a yellow button  to erase (hours + programme) ; before commencing to programme press this button.

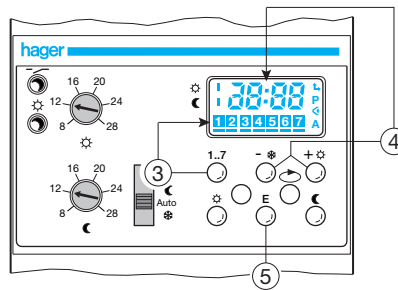
the selected mode is indicated by the symbol on the right of the LCD screen.



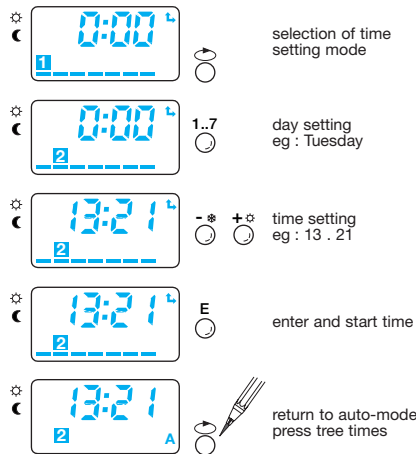
time setting

this mode allows :

- day setting
- time setting



- ③ day setting
- ④ hour setting
- ⑤ enter

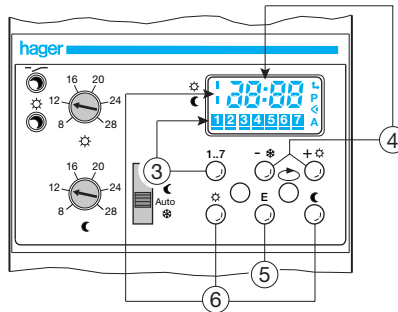


programming mode **P**

this mode allows 2 alternatives of programming :

- each day
- groups of days (common instruction for several days).

an existing programme can be changed by adding, changing or by cancelling an instruction (display mode allows those modifications).

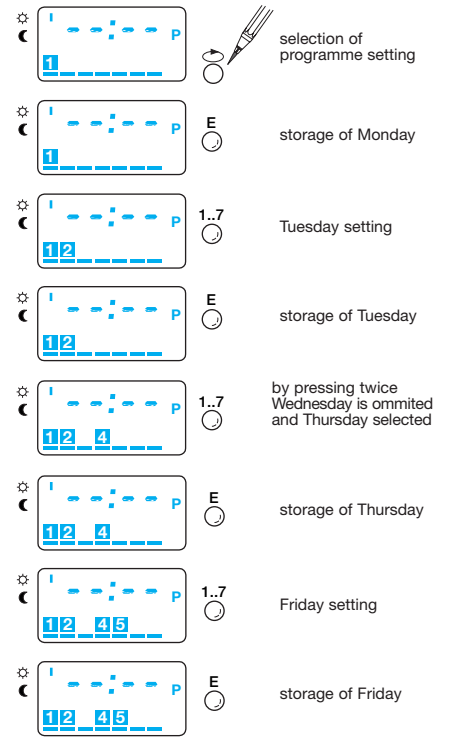


- ③ day setting
- ④ programming of instruction
- ⑤ enter
- ⑥ override start / stop

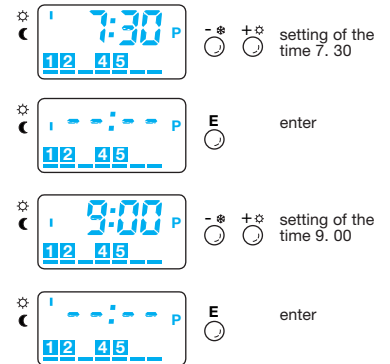
example of programming

heating system at comfort temperature on Monday, Tuesday, Thursday and Friday from 7.30 to 9.00 and from 17.00 to 22.00
outside selected comfort order the programmer will operate at the reduced temperature level ;
before programming, group the days

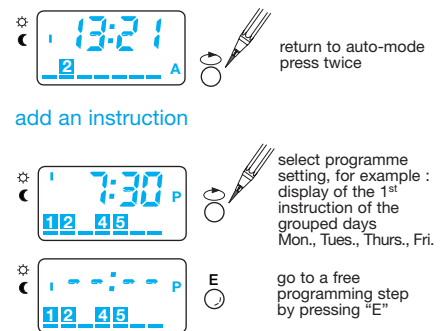
a. to group days : "Monday, Tuesday, Thursday, Friday".





b. entering instructions



for the other instruction of the grouping days Mon., Tues., Thurs., Fri., proceed as before i.e. set "+" or "-", and enter "E" to select another day, press "1..7".

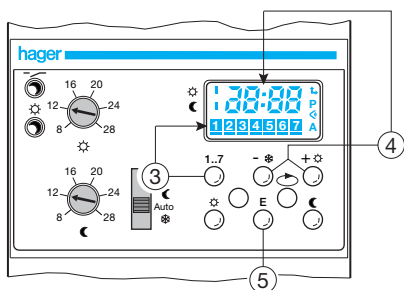


select state of the instruction with  or , proceed as before i.e. set "+" or "-" and record it with "E" ; for setting another day press "1..7".

display mode ◀

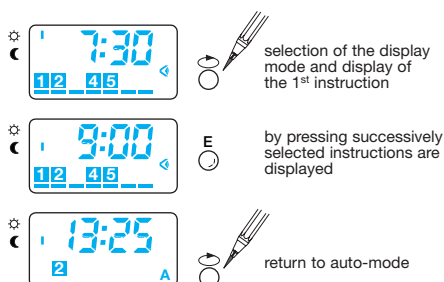
this mode allows :

- programme checking
- changing an existing programme by modification of an instruction, cancellation of an instruction.



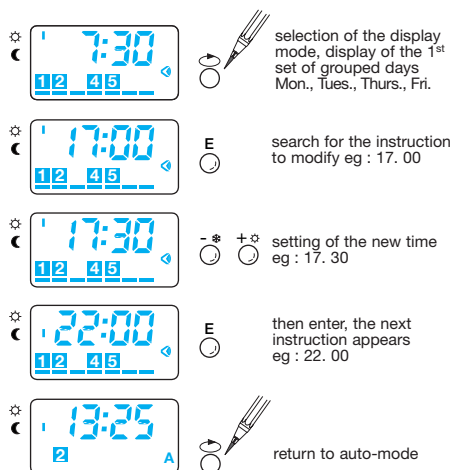
- ③ selection of days
- ④ modification or cancellation of instructions
- ⑤ enter

checking the programme



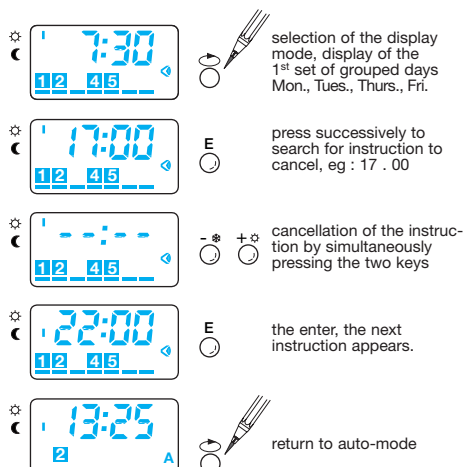
modify an instruction

example : modify the time 17.00



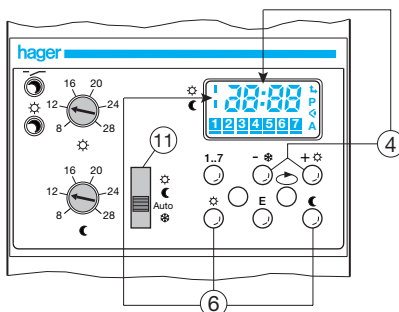
cancel an instruction

example : cancell the instruction 17.00

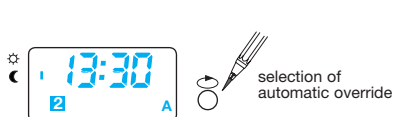


auto-mode A

this is the normal operating mode of the device, to select this mode move selector switch (11) to the "auto" position.

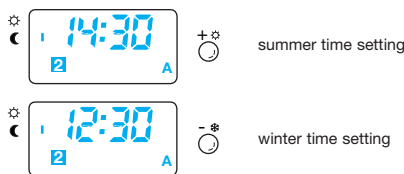


- this operating mode allows :
- ④ summer or winter time setting
- ⑥ temporary override ☼, temporary override ☾



summer / winter time setting

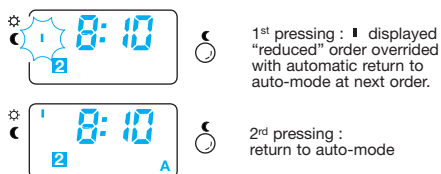
eg : action at 13.30



temporary overrides

allows temporary override of instructions ("comfort" or "reduced"); with automatic return to programme at next order.

press "☼" or "☾"
example : temperature regulation mode according to "☼" order from 8.00



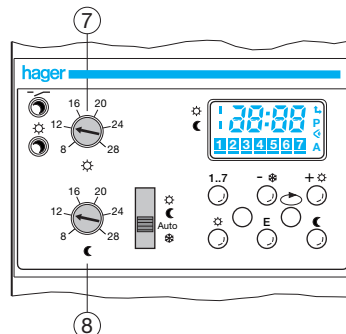
permanent overrides

- ☼ Auto ☾ permanent override : regulation of temperature according to "comfort" order
- ☼ Auto ☾ permanent override : regulation of temperature according to "reduced" order
- ☼ Auto ☾ permanent override : regulation of temperature according to "anti-frost" order

Warranty

A warranty period of 24 months is offered on hager products, from date of manufacture, relating to any material of manufacturing defect. If any product is found to be defective it must be returned via the installer and supplier (wholesaler).
The warranty is withdrawn if :
- after inspection by hager quality control dept the device is found to have been installed in a manner which is contrary to IEE wiring regulations and accepted practice within the industry at the time of installation.
- the procedure for the return of goods has not been followed.
Explanation of defect must be included when returning goods.

setting of orders



- ⑦ example : setting of "comfort" temperature order 20 °C
- ⑧ example : setting of "reduced" temperature order 16 °C

technical specifications

electrical characteristics :
- voltage rating : 230 V~ 50/60 Hz
- consumption : < 4 VA
- output : 1 changeover contact
μ 2 A - 250 V~ AC1

functional characteristics :
- adjustable temperature orders "comfort" and "reduced" from +8 °C to +28 °C
fixed "anti-frost" temperature to +8 °C
- accuracy : ± 0,2 °C
- weekly cycle
- programming capacity : 24 prog. steps
- programme setting : 1 minute increments
- accuracy : ± 5 min./annum
- supply failure reserve : 24 h
no loss of programme in event of unlimited power failure.

environment :
- working temperature :
-5 °C to + 45 °C
- storage temperature :
-20 °C to + 60 °C

connection capacity :
- flexible : 1 to 6[□]
- rigid : 1,5 to 10[□]
probe : maximum distance 50 m.

wiring

