

501-0005/6

digital programmable
room controllers



altecnic

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Introduction

The Altecnic 501 digital programmable room controllers have 7 day functions which allows operating times and temperatures to be set throughout the week.

The controller has a big, clear display (with adjustable contrast) so as to monitor all functions in real time.

The 501-006 "wireless" controller sends operating commands by means of radio frequencies. The signals sent can be received by numerous receivers which have the task of recognising and interpreting the signals and translating them into the operations to be performed.

The controller is easy to program and is equipped with a calendar which, once the current year, month, day, hour, and minutes have been entered, allows for automatic changing from standard time to daylight savings time and vice-versa.

3 pre-set programs are already set in the controller's permanent memory (2 winter, one of which is pre-set + 1 summer), designed to provide maximum comfort.

Only a few seconds are needed to set the preferred temperatures to be applied throughout each day.

The controller has several energy saving functions including;

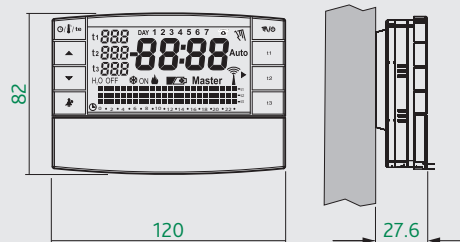
- the holiday function
- the interruption function for cleaning
- the option to block the set temperatures t1 and/or t2,
- the set temperatures t1, t2 & t3 can be set for optimum comfort
- the control via telephone (with optional telephone programmer)

It is also possible to minimise battery consumption by setting the night shutdown (standby) function or the display power-off functions.

Additional Features

- Set program or manual operation
- The year, month, day, hours and minutes can all be changed
- Viewing the current time or room temperature
- Correction of the detected room temperature (OFFSET)
- Password entry to access settings for modification
- Possible to assign one or more receivers.
- Display indication of radio signal transmission
- Complete shutdown of temperature control
- Transmission "test" signal to verify signal presence and range.
- Low battery level indicator
- Automatic Standard Time to Daylight Savings Time switching

Dimensions



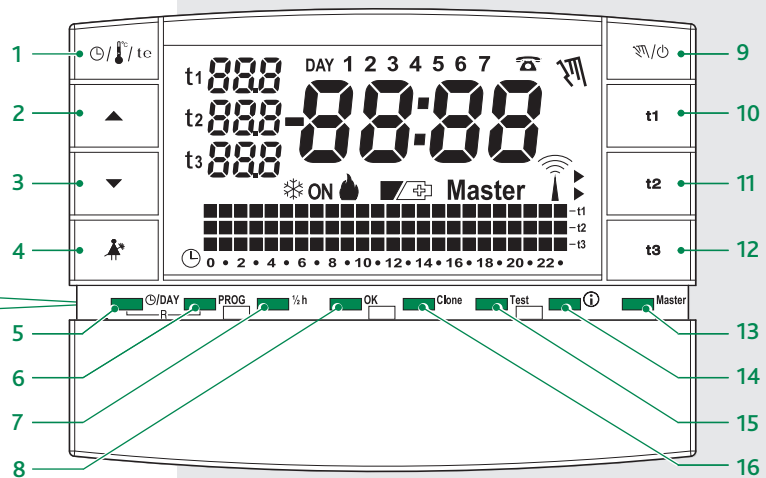
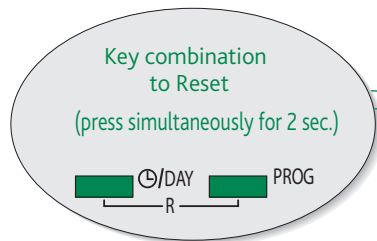
Product Codes

- 501-0005 - digital programmable room thermostat - **wired**
- 501-0006 - digital programmable room thermostat - **wireless**

Technical Specification

Power supply:	N° 2 alkaline batteries 1.5 V type AA (LR6)
Battery life:	approx. 3 years (display always on)
Time remaining from when "Battery Low" symbol appears:	30 days
Control output:	via radio to an actuator receiver
Antenna:	built into the controller
Transmission frequency (carrier):	868.35 MHz
Maximum signal range in a clear area:	120 metres
Maximum signal range in the presence of walls:	30 metres
Input for telephone programmer:	for a voltage free NO contact
Cross-section of wires to telephone programmer input terminals:	0.5 mm ² to 1.5 mm ²
Insulation type:	Class III
Degree of protection:	IP 30
Pollution rating:	normal
Type of installation:	wall mounted (table base optional)
Room temperature display range:	5°C to 39°C
Ambient temperature indicator resolution:	0.1°C
Set temperature setting adjustment (t1/t2):	4 to 39°C (restrictable)
Absence (t3) set temperature setting adjustment field:	excludable or adjustable from 4°C to 39°C
Setting temperature resolution:	0.5°C
Room temperature detection correction (OFFSET):	adjustable from -1.9°C to +1.9°C (default 0.0°C)
Differential ON/OFF temperature adjustment method:	adjustable from 0.2°C to 0.7°C (default 0.3°C)
Thermal gradient:	max 1°K / 15 min
Operating temperature limits:	-5°C to 55°C
Storage temperature limits:	-10°C to 65°C
Reference standard for CE mark:	LVD EN 60 950-1 EMC EN301 489-3 RADIO EN300 220-3 (Directive R&TTE 1995/5 - CE)

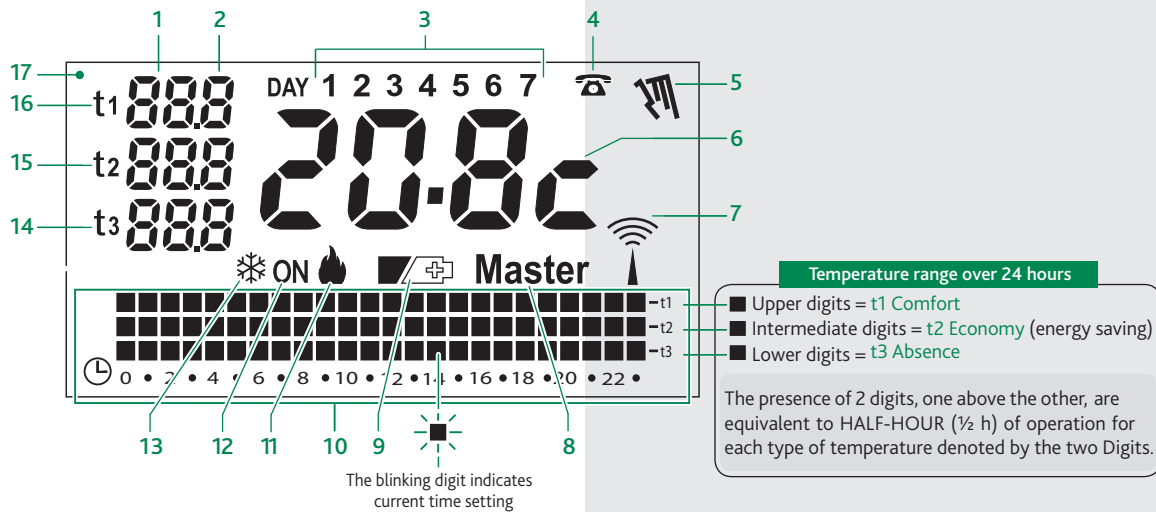
Key Functions



- 1 Key for viewing the current time or room temperature - display the current outside temperature (only models with this option)
- 2 Key ▲ to increase selected temperature
- 3 Key ▼ to lower selected temperature
Keys ▲ and ▼ are also used for many other functions.
- 4 Key to suspend the current program
- 5 Key to change the year, month, day, hour and minutes
- 6 Key to select / display programs:
 - P 01 or P 02 or weekly winter programs (🔥 heating)
 - P 03 weekly summer program (❄️ cooling)
 - P 04 HOLIDAY program (i.e. away for holidays)

- 7 Half hour program (1/2 h)
- 8 Key to confirm the operation
- 9 Key to select manual mode and de-activate system (OFF)
- 10 Key to select "t1" Comfort temperature set/programming
- 11 Key to select "t2" Economy temperature set/programming
- 12 Key to select "t3" Absence temperature set/programming
- 13 "Master" function activation key
- 14 «INFO» key for viewing the software version, battery status, serial number, display contrast and display standby setting
- 15 Key for sending "Test" transmission
- 16 Clone key for transferring the entire program to another controller of the same series

Screen Functions



- 1 Displays the set temperature
- 2 Displays tenth of a degree (in steps of 0.5°C)
- 3 Days of the week
- 4 Activation via telephone programmer
- 5 Manual mode indicator
- 6 Current time or room temperature
- 7 Radio signal transmission in progress
- 8 Master mode indicator
- 9 Low battery indicator (replace within 30 days from signal)

- 10 Temperature range over 24 hours
- 11 «WINTER» heating program enabled
- 12 System in operation indicator
 - ON + message blinks 🔥 (e.g. boiler in operation)
 - ON + message blinks ❄️ (e.g. air conditioning in operation)
- 13 «SUMMER» cooling program enabled
- 14 t3 Absence temperature setting
- 15 t2 Economy energy saving temperature setting
- 16 t1 Comfort temperature setting
- 17 Display (adjustable contrast or automatic standby functions)

E & O.E

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