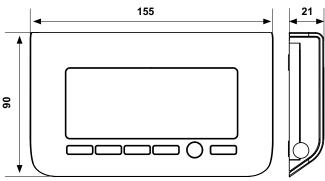
IntelliComfort CH150TS

Touch screen weekly chronothermostat, with batteries

Electronic chronothermostat with microprocessor, with weekly programming, to control heating and air-conditioning installations, with touch screen and back lighting.





	Temperature regulation range °C	Differential * K	Temperature displayed range °C	Adjustable antifreeze temperature range °C	Humidity displayed range RH%	Power supply
CH150TS	2 ÷ 40	0,25	-30 ÷ 60	2 ÷ 7	20 ÷ 90	2 batteries AA

ELECTRICAL CHARACTERISTICS

Contacts rating: 5(3)A 250Vca.

Voltage-free switching contact.

Power supply with two 1,5 V AA alkaline batteries.

Batteries operation life more than 1 year.

Low batteries charge indication.

Area TOUCH to activate the back lighting.

5 ICONS on the display to access directly the operation modes that can change by pressing the corresponding key/icon.

1 SIDE KEY for locking/unlocking the touch screen (a locked touch screen disables all functions on the display).

1 ICON for accessing the programming menu.



FEATURES AND JOINT OPERATION OF ALL MODELS

HOMOLOGATION AND STANDARDS

In conformity with EN 60730-2-9; EN 60730-2-11 standards.

INSTALLATION

Wall mounting by means of fastening base in round boxes 502-503.

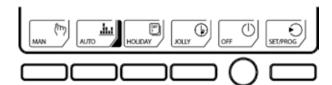
Two-wire connection with the user.

Install the chronothermostat at 1,5 m height from the floor, away from kitchens, heat sources, windows and doors.

OPERATION

The chronothermostat has:

- 3 side wheels for immediate setting of the temperatures.
- 1 SUMMER-WINTER switch button.
- 5 front keys to access directly the operating modes that can be changed by pressing the corresponding key.
- 1 key to access the programming menu.





VISUALIZATION

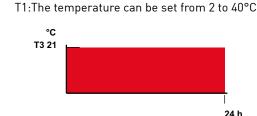
- Ambient temperature.
- Outside temperature (if external sensor is installed).
- Measured temperature (measured temperature of the body as a function of ambient humidity).
- Humidity percentage in the environment.

OPERATION MODES



MANUAL

The chronothermostat regulates the room temperature using the set temperature within 24 hours.





AUTOMATIC

The chronothermostat regulates the set temperatures according to the schedules on weekly profile.

It has 2 winter programs and 1 summer program (prescribed).

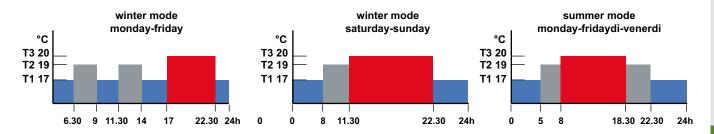
In automatic mode can be set three temperature levels T1-T2-T3.

T1 can be set from 2 to 40 °C

T2 can be set from 2 to 40 °C

T3 can be set from 2 to 40 °C

Note: T3 cannot be less than T2 and T2 cannot be less than T1.



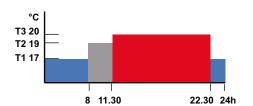


HOLIDAY

The chronothermostat follows time and temperature settings of the day "8".

This mode stops when it is selected another operating mode. The chronothermostat has a predefined mode - Holiday, equal to Saturday and Sunday.

In Holiday mode can be set three temperature levels T1-T2-T3.

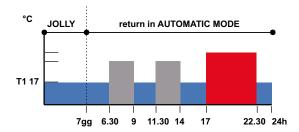




JOLLY

The chronothermostat controls the installation using a set temperature over a period of time ranging from 1 hour to 99 days and 23 hours.

At the end of the set time, the chronothermostat returns to the previously used operation mode. This function can be excluded at any time by setting a different operation mode.



Example: Automatic Mode - Jolly for 1 week - the chronothermostat completes the period of Jolly and resumes the automatic mode.

T1: The temperature set manually from 2 to 40°C.



OFF (turned OFF)

This mode is used to manage system operation for maintaining the antifreeze temperature, set from 2 to 7°C. Complete turn OFF of the system T1=0FF.

SPECIAL FUNCTIONS

These functions are selected accessing the technical menu of the chronothermostat.

TEMPERATURE

CELS

Temperature display in Celsius degrees (centigrade), e.g. 20,5°C.

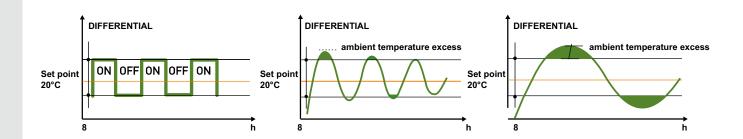
FRHA

Temperature display in Fahrenheit degrees, e.g. 76,4°F.

REGULATION TYPE

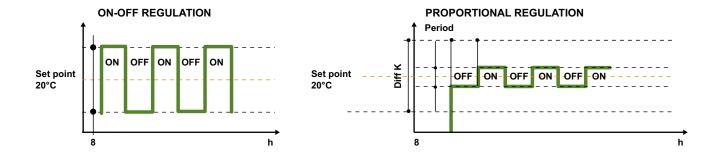
5 d Standard regulation (ON-OFF).

When it is required heating "ON" the boiler or the cooling system stops the functioning only when is reached the set temperature value (set point) within the differential. It is reached quickly the set-point in installations with low inertia; on the contrary, in systems with high inertia are possible high temperature oscillations.



Proportional regulation

This regulation type allows you to limit the thermal differential to the minimum, significantly increasing the comfort. In proportional regulation the "heat request" periods are managed within the proportional band.

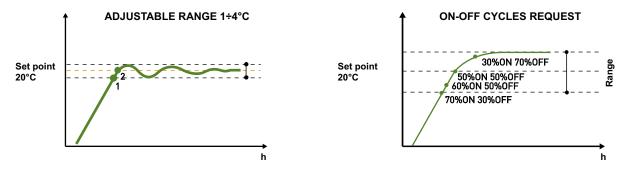


ADJUSTABLE PROPORTIONAL RANGE

A range means the value at which the chronothermostat starts regulation with ON and OFF cycles (installation) as a function of the prescribed period. Range regulation from 1 to 4°C by 0.1°C increments.

ON-OFF CYCLES

Are defined according to the chronothermostat's reached temperature, if the ambient temperature is equal to the set-point and the cycles are 50% ON and 50% OFF (proportional contribution +/- one percentage of the integral part contribution).



- 1) The temperature is within adjustable range, the chronothermostat starts to set ON-OFF cycles.
- 2) The temperature approaches to the set-point, decreasing ON cycles and increasing OFF cycles.

PEr REGULATION PERIOD

Regulation period is set in 5/10/20 minutes, value managed for ON-OFF cycles.

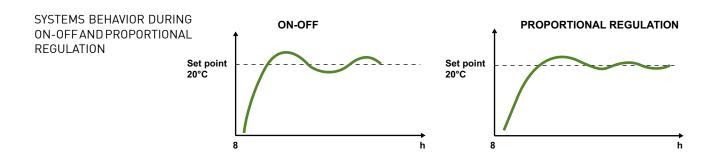
■ EXAMPLE: period of 10 minutes 70% ON = 7 minutes, 30% OFF = 3 minutes. The period and the range should be defined according to the inertia and to the heat transfer type, such as:

FAN-COIL= transfer for convection

HEATERS= transfer for convection and radiation (prevailing convection)

PANNELLI RADIANTI= transfer for radiation and convection (prevailing radiation)

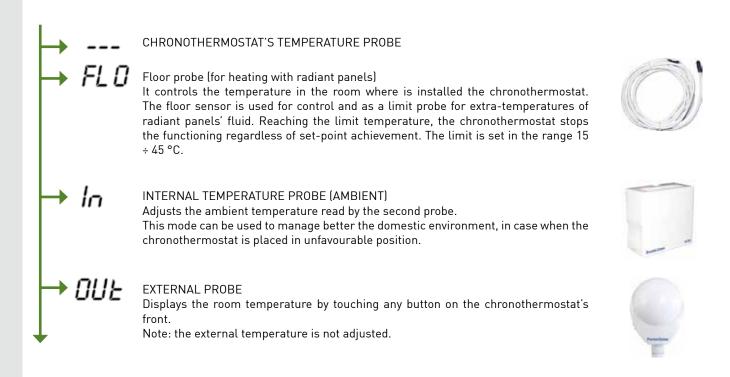
It has the advantage of decreasing the temperature excess regarding ON-OFF regulation, only to achieve the set-point will need more time.



PRESCRIBED THERMAL DIFFERENTIAL HI high LO low

SEPARATE TEMPERATURE PROBESPossibility to configure temperature

Possibility to configure temperature probes of four types.



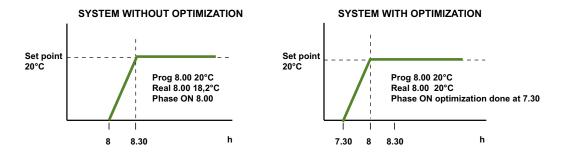
ROOM TEMPERATURE CORRECTION

In cases, when the chronothermostat position is not favourable for an optimum regulation of the environment, and you do not want to appeal to the ambient secondary probes, is possible to correct the temperature, read by the chronothermostat.

Correction range from -4°C to +4°C with increments of 0,1°C.

OPTIMIZATION The device calc

The device calculates system's advance switching-on time needed to achieve the desired temperature at the set time of the day, taking into consideration its thermal inertia. The optimization takes place only at the first system's switching-on of the day.



PUMP ANTI-SEIZURE FUNCTION The unit turns the system on for

The unit turns the system on for 1 minute per day (h 23.58), thereby operating the water circulation pump and preventing it from blocking. This takes place only if the system has never been turned on during the day.

BALL

Determines relay "status" at batteries discharge.

No setting

The chronothermostat is in situation of batteries discharge (OFF displayed), closes the contact 1-2 (opens 1-4).

OFF

The chronothermostat is in situation of batteries discharge (OFF displayed), opens the contact 1-2 (closes 1-4).

FANTINI COSMI SYSTEM

SEPARATE PROBE - ACTUATOR 2-wire connection









EC18 External probe

EC19 Floor probe

EC20 Ambient probe

CT3M/CT3MA - GSM PHONE ACTIVATOR, EXCEPT CH150R - VERSION WITH REMOTE RELAY

Intellitherm CH150 is designed to be connected to the mobile line GSM phone activator Telecomfort CT3/CT3MA. Telecomfort CT3M/CT3MA allows chronothermostat's remote control via SMS messages.

It also allows the remote verification of the ambient temperature and the correct functioning of the chronothermostat.

CHRONOTHERMOSTAT



TELECOMFORT CT3M (see page 92)



EXAMPLE OF INFORMATION FROM THE HEATING SYSTEM

SMS for sending #STATUS

SMS answer Ambient: 25.5 Economy: 17.0 Comfort: 21.0

Input1: OFF Output: OFF Program: OFF Remote: Auto



Ambient temperature Set economy temperature Set comfort temperature Alarm input status

Output relay status (connected to the user)

In use program, set

In use program, set via SMS (remotely)