Room thermostat

CTS 981

Everyday use

CTS 981 - weekly schedule, comfort, economy and frost protection. Based on the Italian original instructions.

For guests, the SUN and MOON buttons are usually sufficient. SUN selects the comfort temperature; MOON selects the economy/night temperature. The weekly schedule stays stored and resumes afterwards.

The large temperature reading normally shows the measured room temperature, not the target setting.



Set the heating

Comfort temperature: press TEMP (below DAY). Press SUN repeatedly until the desired comfort temperature appears; press OK to save.

Economy temperature: press TEMP. Press MOON repeatedly until the desired economy temperature appears; press OK to save.

Warmer or cooler now: briefly press SUN or MOON. The selected mode applies until the next full hour. For a 1-24 hour override, hold the button for more than 2 seconds, select the duration using the same button and confirm with OK.

Press OK to end a manual override immediately and return to the automatic weekly schedule.

Choose a daily programme

Every weekday has a PROG number. PROG 0-9 are fixed factory profiles; PROG 10-19 can be programmed.

1. Use DAY to choose the weekday. 2. Press PROG to display its assigned programme. 3. Press PROG# repeatedly to choose a number from 0 to 19.

For PROG 0-9, do not change the times: the profiles are fixed. Confirm with OK.

For PROG 10-19, programme the hour bar one hour at a time: MOON = one economy hour; SUN = one comfort hour. Continue until all 24 hours are assigned. Up to 12 comfort/economy changes per day are possible. Confirm with OK.

The selected daily programme then runs automatically.

Factory programmes 0-9

The times in the table are comfort periods (black in the original diagram). Outside these periods, economy mode applies.

PROG 2 is a typical morning/evening profile; PROG 8 is all-day comfort; PROG 9 is all-day economy; PROG 0 is frost protection.

PROG 0	Frost protection 7 °C · all day
PROG 1	06:00-22:59
PROG 2	06:00-08:59; 17:00-22:59
PROG 3	06:00-08:59; 11:00-13:59; 17:00-22:59
PROG 4	08:00-16:59
PROG 5	08:00-10:59; 13:00-15:59
PROG 6	09:00-13:59
PROG 7	12:00-22:59
PROG 8	Comfort · all day
PROG 9	Economy · all day

Automatic schedule and override

There is no separate “weekly schedule off” switch. In normal operation the thermostat follows the PROG assigned to the current weekday. PROG plus a number on the display identifies the active daily programme.

Briefly press SUN or MOON for an override until the next full hour. Hold the chosen button for more than 2 seconds, advance the duration with the same button and press OK for a 1-24 hour override. OK returns immediately to automatic operation.

Example custom day: 00:00-05:59 economy = MOON 6 times; 06:00-21:59 comfort = SUN 16 times; 22:00-23:59 economy = MOON 2 times.

Owner and service settings

Guests should normally leave these settings unchanged.

HT / CL: heating or cooling. HT (Heating) must remain active for this heating system.

1C / 2C: switching differential; the gap between the switch-on and switch-off temperatures. Do not change without a reason.

DLY: delays a heating/cooling demand by about 5 minutes. According to the instructions, it is used automatically in cooling mode.

RESET restores factory settings; use only for a genuine malfunction.

Batteries: 2 × AA alkaline, 1.5 V. When the battery symbol appears, replace both batteries together.

After RESET / display

Factory settings: time 00:00; weekday Sunday; comfort 19 °C; economy 15 °C; PROG 1 for every day; PROG 10-19 set to all-day comfort; manual override off; heating / HT; DLY off. Avoid pressing RESET accidentally.

Display: large number = measured room temperature; HT = heating mode; the heating/operation symbol appears when heat is requested; PROG + number = assigned daily programme; battery symbol = replace batteries soon.

Installation and source

Installation and wiring are for qualified personnel only. Mount on an internal wall about 1.5 m above the floor, away from direct sun, draughts, doors, windows and heat/cold sources. Electrical connection must be carried out by a qualified person.

For guests: normally use only SUN, MOON and, if needed, OK. Factory profiles 0-9 require no detailed programming. Change PROG 10-19 only when a new permanent schedule is wanted. Do not casually change HT, 1C/2C, DLY or RESET.

Source: the photographed Italian “Manuale per l’utente - Cronotermostato programmabile CTS 981” and the thermostat photographed in the apartment. Times for programmes 0-9 were taken from its diagram; PROG 6 is also explicitly described there as comfort from 09:00 to 13:59.