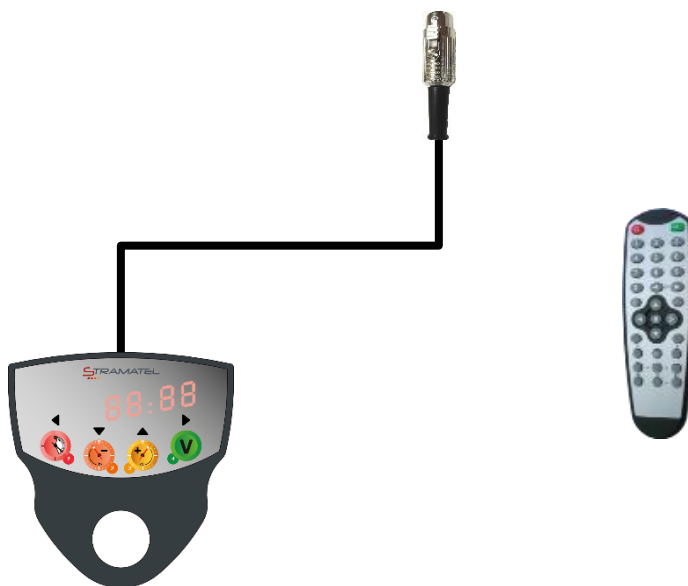



Digital timers

OPERATING INSTRUCTIONS



Non-binding pictures

● SUMMARY – OPERATING FUNCTIONS

Pages 2-3	General points	
2	<p>This display unit is programmed and controlled either by an infrared remote control or a cable remote control.</p> <p>The infrared sensor is located in the front of the display unit. The infrared remote console should face the display unit during programming and operation processes.</p> <p>To connect the display with the cable remote control, plug the flexible cable into the connector located under the display unit.</p> <p>2 modes are available: programming & operating modes.</p>	
2	"Home" mode: the display unit shows only the day time (hours/minutes/seconds).	12:05:00 ▶
2	Data backup	
3	Functions of the remote controls	
Pages 4-5	Set-up - Programming	
4-5	<p>"Programming" mode: this mode is used to program several features/modes: day time and date (tiME), brightness level of the display (LUM), "Energy saving" mode (Eco – the brightness level of the LED display can be reduced between 11pm and 6 am), number of different training cycles programmable in "Workout" mode (trAi), program sound signal duration (Horn), operating mode (master / slave) for display units connected in series (SYnC – master or slave unit), test (tEst - display all the LED digits for testing) and language (LAnG).</p>	<p>ProG</p> <p>▼</p>
Pages 6-11	Functions of the display unit	
6	<p>"Clock" mode: This mode enables to alternately display several informations: the current time (hours/minutes/seconds), the date (days/months/years) and 3 different temperatures.</p> <p>Note: the current time and the date can be set in "Programming" mode.</p>	<p>tiME</p> <p>▼</p>
7	<p>"Timer" mode: Timer can be start in "count-up" mode (from a set value to 99 hours 59 minutes 59 seconds) or in "count-down" mode (from a set value to 0).</p>	<p>tiMEr</p> <p>▼</p>
8	<p>"Day counter" mode: This mode enables to count up or count down a number of days starting from a set value between 0 and 999 days. The "count-up" mode enables for example to display a number of days without accident at work. The "count-down" mode enables for example to display a number of days remaining before an event.</p>	<p>dAY</p> <p>▼</p>
9	<p>"Scoring" mode: This mode enables to give the score of a match from 0-0 to 99-99.</p>	<p>ScorE</p> <p>▼</p>
10	<p>"Workout" mode: This mode enables to manage sequences of exercises / rest periods. Length of the exercise and rest periods can be set from 0 to 59 minutes 59 seconds. Each sequence of exercise / rest period can be repeated from 0 to 99 times. 9 types of sequences can be successively scheduled. During the workout, exercise and rest periods follow each other automatically.</p>	<p>trAi</p> <p>▼</p>
11	<p>"Sleep" mode: This mode enables to switch off all the digits of the display unit.</p>	<p>OFF</p> <p>▼</p>

Data backup

The day time, the date and all programmed data are saved in memory in case the display unit is switched off.

Functions of the infrared remote control

The diagram shows an infrared remote control with several callout boxes pointing to specific buttons:


- Exit programming mode:** Points to the red power button at the top left.
- Temperature value (-/+):** Points to the green button with a plus sign and a minus sign at the top right.
- Programming: ▲ Start/Stop count-up timer:** Points to the upward arrow button in the center.
- Enter programming mode ► Data validation:** Points to the right arrow button in the center.
- Programming mode: go back to the previous entry ◀ Timer reset Split time display:** Points to the left arrow button in the center.
- Programming: ▼ Start/Stop count-down timer:** Points to the downward arrow button in the center.

Functions of the cable remote control

The diagram shows a cable remote control with a digital display and four numbered buttons. Callout boxes explain their functions:

- Programming mode: go back to the previous entry ◀ Timer reset Split time display Long key pressing: Exit programming mode:** Points to button 1 (red).
- Programming: ▼ Start/Stop count-down timer:** Points to button 2 (orange).
- Programming: ▲ Start/Stop count-up timer:** Points to button 3 (yellow).
- Enter programming mode ► Data validation:** Points to button 4 (green).

● SET-UP - PROGRAMMING

Set-up	
<p>This display unit is programmed and controlled either by an infrared remote control or a cable remote control.</p> <p>To connect the display with the cable remote control, plug the flexible cable into the connector located under the display unit.</p>	
<p>When the display unit is switched on, the last saved configuration is displayed for few seconds. Then the display unit switches into the last used mode.</p>	

"Programming" mode – General points	
<p>This mode is used to program several features/modes:</p> <ul style="list-style-type: none"> ✓ Day time and date ✓ Brightness level of the display ✓ "Energy saving" mode: in order to save power consumption, the brightness level of the LED display can be reduced between 11pm and 6 am ✓ Number of different training cycles in "Workout" mode ✓ Sound signal duration of horn or buzzer ✓ Operating mode (master / slave) for display units connected in series ✓ Test mode: display all the LED digits for testing ✓ Language 	<p>tiME</p> <p>LUM</p> <p>Eco</p> <p>trAi</p> <p>Horn</p> <p>SYnC</p> <p>tEst</p> <p>LANg</p>
<p>Press several times key ◀ on the cable remote control (long key pressing) or red key on the infrared remote control: the display unit will be in "Home" mode showing only current time.</p>	<p>12:05:00</p>
<p>Use keys ▲ and ▼ to scroll up or down to other modes available and choose the "Programming" mode.</p> <p>Select this mode with key ►.</p>	<p>ProG</p>
<p>The display unit shows "tiME". Use keys ▲ and ▼ to scroll up or down to other modes available.</p> <p>Select the requested mode, then press key ►.</p>	<p>tiME / LUM / Eco / trAi / Horn / SYnC / tEst / LANg</p>
<p>Enter the required data, and valid with key ►: the display unit will be in "Home" mode showing only current time.</p>	<p>12:05:00</p>

Clock setting (tiME)	
<p>Enter tens of hours with keys ▲ and ▼. Switch to the units of hours with key ►. Come back if needed to the tens of hours with key ◀.</p> <p>Program the minutes and the seconds in the same way with the same keys.</p>	<p>2H:-M:-S</p>
<p>Then, program the day, the month and the year in the same way with the same keys.</p> <p>Valid with key ►.</p>	<p>0d:-M:-Y</p>

Brightness of the LEDs (LUM)	
You may choose between 4 levels of LED brightness. Choose the brightness level needed (from 1 to 4) with keys ▲ and ▼. The brightness level changes during programming. Valid with key ►.	LU: 4
"Energy saving" mode (Eco)	
This "energy saving" mode enables to automatically reduce the brightness of the LEDs between 11 pm and 6 am. Switch on or switch off the "energy saving" mode with keys ▲ and ▼. Valid with key ►.	Ec:on / Ec:OF
Number of different training cycles programmable in "Workout" mode (trAi)	
Up to 9 different cycles can be programmed in "Workout" mode. For example: 1 st cycle with 20 seconds of exercise / 10 seconds rest / repeated 10 times, 2 nd cycle with 30 seconds of exercise / 15 seconds rest / repeated 5 times, etc... Choose the maximum number of cycles with keys ▲ and ▼. Valid with key ►.	tr: 8
Horn or buzzer: program sound signal duration (Horn)	
In "Timer" and "Workout" modes, length of the sound signal can be set from 0 to 4 seconds (in case your display unit was delivered with the "built-in sound signal" option). Set it on "0" to disable sound signal. Choose the length of the sound signal with keys ▲ and ▼. Valid with key ►.	Ho: 2
Operating mode (master / slave) for display units connected in series (SYnC)	
Displays ordered to work connected: each display can be configured as master or slave (only 1 display can be the master unit). Master unit will automatically reset current time on slave units. Select the master mode (MA) or the slave mode (SL) with keys ▲ and ▼. Valid with key ►.	SY:MA / SY:SL
Test mode: display all the LED digits for testing (tEst).	
This mode enables to check that all the LEDs are working properly and to display the software version (for maintenance tasks). Select different test modes with keys ▲ and ▼.	88:88:88 / 12.34.56
Exit this mode with key ◀ of the cable remote control or with red key of the infrared remote control.	tiME
Language of the display unit (LANg)	
The display unit is programmable in 3 different languages: French (Fr), English (En) and German (dE). Select the language needed with keys ▲ and ▼. Valid with key ►.	LA:Fr / LA:En / LA:dE

● "CLOCK" MODE

Note: the current time and the date can be set in "Programming" mode (see pages 4 & 5)

General points	
<p>This mode enables to alternately display several informations: the current time (hours/minutes/seconds), the date (days/months/years) and 3 different temperatures. Display time for each information can be set from 0 to 9 seconds. Set the display time at 0 if you don't want to display an information. There is also the possibility to choose between 4 different effects for transitions (more or less rapid cross fade effects). Temperatures can either be measured automatically (if the display unit is supplied with temperature sensors) or set manually by the user. Each temperature value can be adjusted. It is possible to display a letter after each temperature to differentiate them from each other (e.g. 25°A for air temperature).</p>	<p>12:05:00 / 15.10.15 / 27°A</p>
<p>Press several times key ◀ on the cable remote control (long key pressing) or red key on the infrared remote control: the display unit will be in "Home" mode showing only current time.</p>	<p>12:05:00</p>
<p>Use keys ▲ and ▼ to scroll up or down to other modes available and choose the "Clock" mode. Select this mode with key ▶. The display unit shows current informations from this mode.</p>	<p>tIME</p>
<p>Press key ▶ to modify informations that must be displayed. The display unit shows "tEMP". Use keys ▲ and ▼ to move in the list of the different informations. Select the requested information, then press key ▶.</p>	<p>tEMP / durAt / diSP</p>
<p>Enter the data, then validate with key ▶ to save and exit programming mode.</p>	<p>12:05:00 / 15.10.15 / 27°A</p>

Temperatures (tEMP)	
<p>It is possible to display up to 3 different temperatures. Use keys ▲ and ▼ to select the temperature to be set or corrected, then press key ▶.</p>	<p>t° 2</p>
<p>Enter tens of degrees with keys ▲ and ▼. Switch to the units of degrees with key ▶. Come back if needed to the tens of degrees with key ◀. Choose a negative or positive temperature with key -/-- of the infrared remote control (this function is not enable on the cable remote control). Enter the temperature value with key ▶. If the temperature is measured by a sensor, the display unit will calculate and save the data correction. Maximal possible correction is between -9° à +9° from the measured value.</p>	<p>27 °- / -27°-</p>
<p>Then, select the letter after the temperature: use keys ▲ and ▼ to select a letter. Save and exit with key ▶.</p>	<p>27 °A</p>

Display time (durAt)	
<p>The display unit shows "dH" (Display time of the clock). Select the display time (from 0 to 9 seconds) with keys ▲ and ▼. Save with key ▶. In the same way select the display time of the date (dd) and of the 3 temperatures (dt). Save with key ▶.</p>	<p>dH 2</p>

Transitions (diSP)	
<p>You may choose between 4 different speeds for transitions. Choose the transition effect (from 0 to 3) with keys ▲ and ▼. Save with key ▶.</p>	<p>di: 0</p>

● "TIMER" MODE

General points	
<p>Timer can be start in "count-up" mode (from a set value to 99 hours 59 minutes 59 seconds) or in "count-down" mode (from a set value to 0). The start value can be set between 0 and 99 hours 59 minutes 59 seconds. Display unit shows the time in minutes/seconds/hundredths of seconds when it is less than 1 hour, in hours/minutes/seconds after 1 hour (hundredth of second can be seen only when the timer is stopped).</p> <p>Split times can be measured and displayed for 2 seconds.</p> <p>In "count-down" mode", the built-in horn or buzzer can sound when the timer reaches zero (in case your display unit was delivered with the "built-in sound signal" option).</p> <p>Length of the sound signal can be set from 0 to 4 seconds (see "Programming "mode" - pages 4 & 5).</p>	23:30:00
Press several times key ◀ on the cable remote control (long key pressing) or red key on the infrared remote control: the display unit will be in " Home " mode showing only current time.	12:05:00
Use keys ▲ and ▼ to scroll up or down to other modes available and choose the "Timer" mode.	tiMEr
Enter "Timer" mode with key ▶. The display unit asks for the start value of the timer: it shows " 0H:-M:-S " (hours/minutes/seconds).	0H:-M:-S

Set of the start value	
Keep the previously set value unchanged by pressing key ◀.	1H:-M:-S
<p>Or set a new value:</p> <ul style="list-style-type: none"> ✓ Enter tens of hours with keys ▲ and ▼. ✓ Switch to the units of hours with key ▶. ✓ Come back if needed to the tens of hours with key ◀. ✓ Program the minutes and the seconds in the same way with the same keys. 	1H:-M:-S
Digits stop flashing when programming is complete.	23:30:00

Timing mode	
As soon as programming is completed, press key ▲ to start the timer in "count-up" mode or press key ▼ to start the timer in "count-down" mode.	

Timing operation	
Start or stop the timer with keys ▲ ou ▼.	23:30:01
Timer is running: press key ◀ to display a split time (split time is displayed for 2 seconds).	"23:35:18"
Timer is stopped: reset the timer to the start value by pressing key ◀.	23:30:00
If needed set a new start value with key ▶.	0H:-M:-S

● "DAY COUNTER" MODE

General points	
<p>This mode enables to count up or count down a number of days starting from a set value between 0 and 999 days.</p> <p>The "count-up" mode enables for example to display a number of days without accident at work.</p> <p>The "count-down" mode enables for example to display a number of days remaining before an event.</p> <p>The day counter increments or decrements the number of the days every day at midnight (just modify the clock settings in order to display this change at another time)</p> <p>In "count-down" mode, the display unit shows "d-dAY" when the number of days reaches 0, then "0" the next days.</p>	d-365
Press several times key ◀ on the cable remote control (long key pressing) or red key on the infrared remote control: the display unit will be in " Home " mode showing only current time.	12:05:00
Use keys ▲ and ▼ to scroll up or down to other modes available and choose the "Day counter" mode.	daY
Enter "Day counter" mode with key ▶. The display unit asks for the start value of the day counter (number of days).	2--

Set of the start value (number of days)	
Keep the previously set value unchanged by pressing key ◀.	365d
<p>Or set a new value:</p> <ul style="list-style-type: none"> ✓ Enter hundreds of days with keys ▲ and ▼. ✓ Switch to the tens of days with key ▶. ✓ Come back if needed to the hundreds of days with key ◀. ✓ Enter tens and units of days the same way. 	365d
Digits stop flashing when programming is complete.	365d

Counter mode	
Press key ▲ to count up the number of days.	365d
Press key ▼ to count down the number of days.	d-365

● "SCORING" MODE

General points	
This mode enables to give the score of a match from 0-0 to 99-99.	12 17
Press several times key ◀ on the cable remote control (long key pressing) or red key on the infrared remote control: the display unit will be in " Home " mode showing only current time.	12:05:00
Use keys ▲ and ▼ to scroll up or down to other modes available and choose the "Scoring" mode.	ScorE
Select the "Scoring" mode with key ▶.	0 0

Scoring	
Select the score you want to modify by pressing key ▶ once or twice: selected score is flashing.	12 "18"
Add 1 point with key ▲.	12 "19"
Deduct 1 point with key ▼.	12 "17"
Save and exit by pressing key ▶ once or twice.	12 17

Reset the scores	
Press key ◀ several times.	0 0

● "WORKOUT" MODE

General points	
<p>This mode enables to manage sequences of exercises / rest periods. Length of the exercise and rest periods can be set from 0 to 59 minutes 59 seconds. Each sequence of exercise / rest period can be repeated from 0 to 99 times. Different types of sequences can be successively scheduled (9 types maximum - see "Programming" mode - pages 4 & 5).</p> <p>During the workout, exercise and rest periods follow each other automatically. The display unit shows the exercise in progress (E2 for example) or the rest in progress (r2 for example).</p> <p>Horn can sound at the end of each exercise and rest periods (in case your display unit was delivered with the "built-in sound signal" option). Length of the sound signal can be set from 0 to 4 seconds (see "Programming" mode" - pages 4 & 5).</p>	E1 10:00
Press several times key ◀ on the cable remote control (long key pressing) or red key on the infrared remote control: the display unit will be in "Home" mode showing only current time.	12:05:00
Use keys ▲ and ▼ to scroll up or down to other modes available and choose the "Workout" mode.	trAin
Enter "Workout" mode with key ▶. The display unit asks for the lengths of exercise and rest periods of the first sequence: it shows "E1:--:--".	E1:--:--

Program the data	
Keep the previously set values unchanged by pressing key ◀ or set new values:	
<p>Display unit shows "E1:--:--" (length of the exercise period for the 1st sequence). Enter tens of minutes with keys ▲ and ▼. Switch to the units of minutes with key ▶. Come back if needed to the tens of minutes with key ◀. Enter tens and units of seconds the same way.</p> <p>Save the exercise length with key ▶.</p>	E1:--:--
<p>Display unit shows "r1:--:--" (length of the rest period for the first sequence). Enter tens of minutes with keys ▲ and ▼. Switch to the units of minutes with key ▶. Come back if needed to the tens of minutes with key ◀. Enter tens and units of seconds the same way.</p> <p>Save the rest length with key ▶.</p>	r1:--:--
<p>Display unit shows "c1:--" (number of times the same sequence must be repeated). Enter tens with keys ▲ and ▼. Switch to the units with key ▶. Come back if needed to the tens with key ◀.</p> <p>Enter the value with key ▶.</p>	C1:--
<p>Display unit shows "E2:--:--" (length of the exercise period for the 2nd sequence – except if only one sequence has been scheduled).</p> <p>Enter the data as indicated previously.</p>	E2:--:--
Digits stop flashing when programming of the last sequence is complete.	E1 10:00

Workout	
Start or stop the timer with keys ▲ ou ▼. Exercise and rest periods follow each other automatically.	E1 9:59
Timer stopped: load a similar workout with key ◀.	E1 10:00
If needed enter new settings with key ▶.	E1:--:--

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