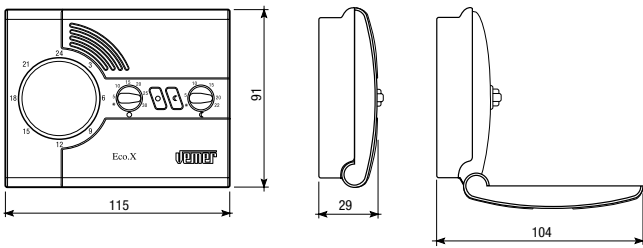V3IS01047-010-202211

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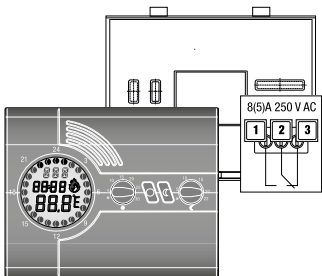e-mail: info@vemer.it - web site: www.vemer.it
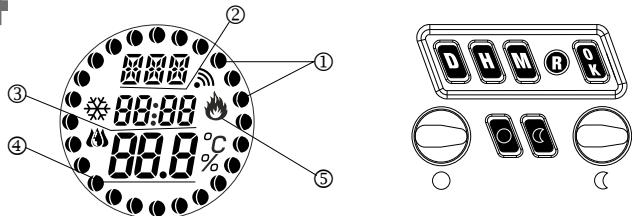
Mod. **ECO.X**

Manuals download
[⬇ PDF]

2 DIMENSIONS

115   91   29   104

3 CONNECTION DIAGRAMS

8(5)A 250 V AC
1 2 3

4 DISPLAY AND PROGRAMMING

- ① **"SUN"/"MOON"** time programming with 24 "SUN ☀" and 24 "MOON ☾" symbols related to 0 ÷ 23 time.
- ② **DAY** (weekly version only) day of the week in 5 languages selected by the user.
- ③ **TIME** shows the time (HH:MM).
- ④ **TEMPERATURE** shows the temperature (in °C).
- ⑤ **FIRE 🔥** shows the relay activation
- **D** day of the week setting (in the weekly version only)
- **H** increases the hour field
- **M** increases the minutes field
- **R (Reset)** resets the functions to the default values
- **OK** programming, language selection, exit to normal operating mode
- **SUN KEY** "☀" **"comfort"**; temperature indication; during programming it sets the **"comfort"** temperature
- **MOON KEY "☾"** **"saving"**; temperature indication; during programming it sets the **"saving"** temperature
- **SUN HANDLE** "☀" **"comfort"** temperature regulation
- **MOON HANDLE** "☾" **"saving"** temperature regulation
- Hold down the keys to activate their respective operations. During the program or language setting, if no key is pressed for 30s, the chronothermostat returns to normal operating mode and memorizes the modified operations.
- By pressing **"H"** or **"M"**, the value in the field to be modified increases with constant acceleration.

1 User manual
WALL-MOUNTING DIGITAL CHRONOTHERMOSTAT
⚠ **Read all instructions carefully**

Wall-mounted electronic chronothermostat available in versions with daily or weekly programming, designed for adjusting the room temperature in heating mode (winter). These instruments perform actions of 1B type and are intended for operating in environments Pollution degree 2 and Overvoltage Category III (EN 60730-1).

Code	Model	Description
VN161600	Eco.X-D	Weekly chronothermostat White
VN160800	Eco.X-W	Daily chronothermostat White

SAFETY WARNINGS
During installation and operation of the product, it is necessary to comply with the following instructions:
1) The instrument must be installed by a skilled person, in strict compliance with the connection diagrams.
2) Do not power on or connect the instrument if any part of it is damaged.
3) After installation, inaccessibility to the connection terminals without appropriate tools must be guaranteed.
4) The instrument must be installed and activated in compliance with current electric systems standards.
5) Before accessing the connection terminals, verify that the leads are not live.
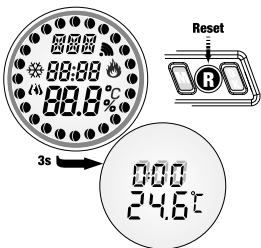
TECHNICAL SPECIFICATIONS
- Power supply: 2x1,5 V micro stylus alkaline batteries (AAA)
- Autonomy: 12 months minimum
- Charge reserve: about 2 minutes for batteries replacement
- Battery charge condition indication with "failed batteries" signalling
- Output: bistable relay with max. 8(5)A (250V AC) exchange contact
- 2 temperatures, **"SUN"** and **"MOON"**, are settable by means of a trimmer:
- ON/OFF temperature regulation with fixed differential of 0.3 °C
- Programming resolution: 1h
- Temperature measured resolution: 0.1 °C
- Precision: ±0.5 °C
- Temperature measurement update every 60s
- Temperature measured: 0 °C ÷ +40 °C
- Operating temperature: 0 °C ÷ +50 °C
- Storage temperature: -10 °C ÷ +65 °C
- LCD display with visualization of temperature, time, daily program and relay activation state and day of the week (in **Eco.X-W** only)
- Protection degree IP40

5 INITIAL START UP AND CLOCK SETTING

Insert the batteries and press **"R" (Reset)** with a pencil or a pointed object.

- **This operation will reset all the data and programs previously set, which will be initialised as default for all the days of the week:**
  "SUN ☀" comfort temperature from 07:00 to 21:59
  "MOON ☾" saving temperature from 22:00 to 06:59

Reset

- All the segments of the display will be switched on and the relay will be activated for about 3s.
- The display will be switched off, the clock will restart from **"00:00"** on Monday (in **Eco.X-W** version only).
- Until the first clock set the display shows the ambient temperature and the time (flashing).
- Regulation begins only after the time setting.

CLOCK SETTING
- Press **"D"**, **"H"** and **"M"** to set respectively the day (in **Eco.X-W** version only), the hour and the current minutes.
- Press one of these keys to increase their respective value of one (**"H"** and **"M"** have the autorepeat function).
- Once the clock has been set, the chronothermostat moves to the automatic operation.

Note: at any time it is possible to change the current day and time by pressing "D", "H" and "M" and following the above mentioned instructions.

11-2022

REFERENCE STANDARDS

Compliance with Community Directives 2014/35/UE (LVD) 2014/30/UE (EMCD) is declared with reference to the following harmonized standards:
• **EN 60730-2-7** • **EN 60730-2-9**

6 AUTOMATIC OPERATION

- In automatic operation the temperature regulation is active and the LCD display shows the following information:

MON 16:38 24.6°C

  - Current time (**HH:MM**)
  - Temperature measured
  - Temperature unit of measure (**°C**)
  - **FIRE "🔥"** symbol (if the relay is ON)
  - "**SUN ☀**" or "**MOON ☾**"for each time of the day as per current daily program
  - Day of the week in the selected language (in **Eco.X-W** version)

8 TEMPERATURES SETTING

- **"Comfort"** (SUN) and **"saving"** (MOON) temperatures are set by means of two handles.
  - **SUN ☀**": +2 °C ÷ +30 °C
  - **MOON ☾**": +2 °C ÷ +22 °C
The temperature value is indicated by the serigraphy associated with them
- Press the keys **"☀"** or **"☾"** in **"TEMPERATURE"** field to display the temperature (flashing) set by means of the respective handle; in the **"DAY"** field the word **"SET"** is displayed

MON 16:04 24.6°C   SET 16:04 16.9°C   SET 16:04 26.4°C

- Rotate the respective handle to modify the temperature. The temperature stops flashing for about 2s
- Press the keys **"☀"** or **"☾"** a second time to return to the display of the temperature measured
- It is possible to return to the automatic operation by pressing **"OK"** too

- **It is also possible to modify the "SUN"/"MOON" temperatures with pressing the respective keys, operating just the handles. In this case the set temperature is not displayed**

Note: If no key is pressed or if the handle is not operated for about 30s, the chronothermostat will return to the automatic operation and memorize the modified settings.

10 MANUAL OPERATION

- Press the keys **"☀"** or **"☾"** for at least 3s to move from automatic to manual operation.
- In manual operation the regulation temperature is prefixed in "**SUN ☀**" or "**MOON ☾**" for each time of the day.

MAN 16:04 24.6°C
MAN 16:04 20.2°C

  - The operation type is indicated by the word **"MAN"** in **"DAY"** field and by all the suns and moons switched on.
  - Press the key **"☀"** or **"☾"** to modify the regulation temperature.
    In **"DAY"** field the word **"SET"** is shown and the temperature begins to flash. To change the temperature operate the respective handle (as in the automatic operation).
  - Temperature can be modified without pressing one of the "☀" or "☾" keys too.
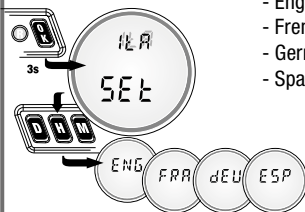   In this case the set temperature is not displayed.
- During the setting it is possible to move from "**SUN ☀**" temperature to the "**MOON ☾**" one and vice versa by pressing the respective key.
- Press the keys **"☀"** or **"☾"** or **"OK"** again to move back to the manual operation 30s after the last regulation the chronothermostat automatically returns to the manual operation.

- **In MANUAL operation it is possible to modify hours and minutes, display "SUN ☀" or "MOON ☾"**
  On the contrary, it is not possible to modify neither the set programs nor the selected language (in Eco.X-W).
- **If the day of the week is modified (in Eco.X-W version only) you move back to the AUTOMATIC operation.**

- Press the keys **"☀"** or **"☾"** for at least 3s to move back to the automatic operation.

7 LANGUAGE SELECTION (ONLY FOR ECO.X-W)

- Press **"OK"** for at least 3 seconds to modify the language display of the day of the week
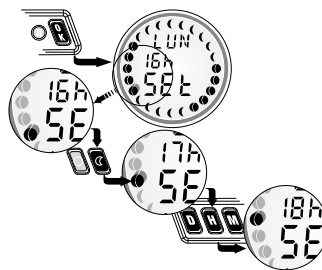

ITA SET
ENG FRA DEU ESP

  - The available languages are (in order):
  - Italian (ita)
  - English (eng)
  - French (fra)
  - German (deu)
  - Spanish (esp)
    - Press **"D"**, **"H"** or **"M"** to select the language
    - It is possible to abandon the selection by pressing **"OK"** or after 30s from the last key pression

9 PROGRAM SETTING

- Once the device is operating, the chronothermostat is set with the default program ("**SUN ☀**" from 07:00 to 21:59 and "**MOON ☾**" from 22:00 to 06:59)
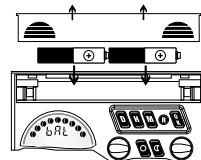- Press the key **"OK"** to modify this program

LUN SET   16A SE   17A SE   18A SE

- The display shows the word **"SET"** instead of the temperature, **"TIME"** field shows the current time (without minutes), the **"SUN"/"MOON"** symbol, relating to the displayed time, flashes and **"DAY"** field shows the day of the current week (weekly version only)
- Press the keys **"☀"** or **"☾"** to set, for the time displayed, respectively the **"comfort"**or **"saving"**temperature (see paragraph **"TEMPERATURES SETTING"**). Once the program has been set, it is possible to move to the next hour and update the **"HOUR"** field (the flashing graphic field will step up clockwise).
- To modify the program of a particular hour, press the key **"H"** till reaching the chosen hour (each time the key is pressed time increases of an hour without modifying the program; the autorepeat function is active) then press the keys **"☀"** or **"☾"** to set the temperature desired
- In **Eco.X-W** model only: press the key **"D"** to change the day of the week; each time this key is pressed the day increases of one.
- Press the key **"OK"** to return to the automatic operation

- **If no key is pressed for 30s, the chronothermostat will abandon the programming function and memorize the modified setting**
Nota: during the program setting, regulation and relay operation are suspended

11 REPLACING THE BATTERIES

- When the batteries are close to exhaustion, the display will flash and show the word **"BAT"** in **"DAY"** field (both in **Eco.X-D** and in **Eco.X-W**).
- The chronothermostat operates regularly, regulation included
- When batteries are removed, the display switches off and all the functions are interrupted, except for the clock update, until the nex batteries are inserted

- **The maximum battery replacement time is about 2 minutes**
When the new batteries are inserted the chronothermostat immediately restarts. In case this does not happen press the **Reset "R"** key.

DISPOSAL OF BATTERIES

⚠ It is necessary to remove the batteries before the instrument is scrapped.
⚠ In case of replacement, dispose of the batteries in the appropriate places separate waste collection containers.