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ABOUT THIS GUIDE

Congratulations on your selection of the Oregon Scientific Maranello Radio-Controlled Projection Clock with Indoor and Outdoor Temperature (FSP-301). This powerful device bundles time keeping, alarm, projection, indoor and wireless outdoor temperature measurement features.
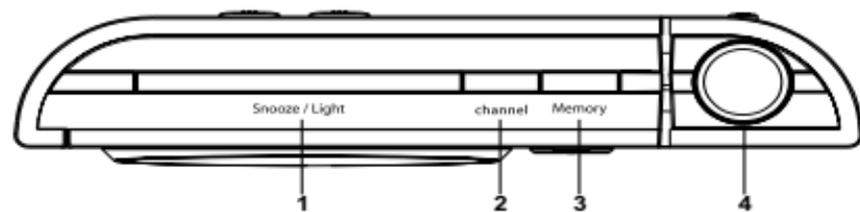
Keep this manual handy as you use your new product. It contains practical step-by-step instructions, as well as technical specifications and warnings you should know.

In this box, you will find:

· Main unit
· Remote unit
· Batteries
· AC/DC power adapter

PRODUCT OVERVIEW

TOP VIEW

DESCRIPTIONS

1. Snooze / Light ($\rightarrow$ 13, 16)
2. Channel ($\rightarrow$ 9, 14)
3. Memory ($\rightarrow$ 14)
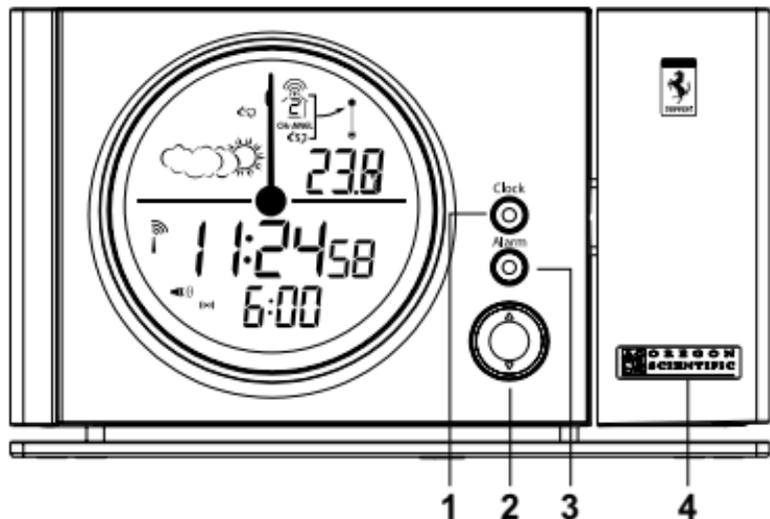4. Projection lens ($\rightarrow$ 17)

LCD DISPLAY

DESCRIPTIONS

1. Low Battery icon(→ 8)
2. Weather Forecast (→ 13)
3. RF Reception Signal (→ 10)
4. Clock (→ 10)
5. Date / Alarm / Alarm Type (→ 10-12)
6. Remote Sensor (→9, 14)
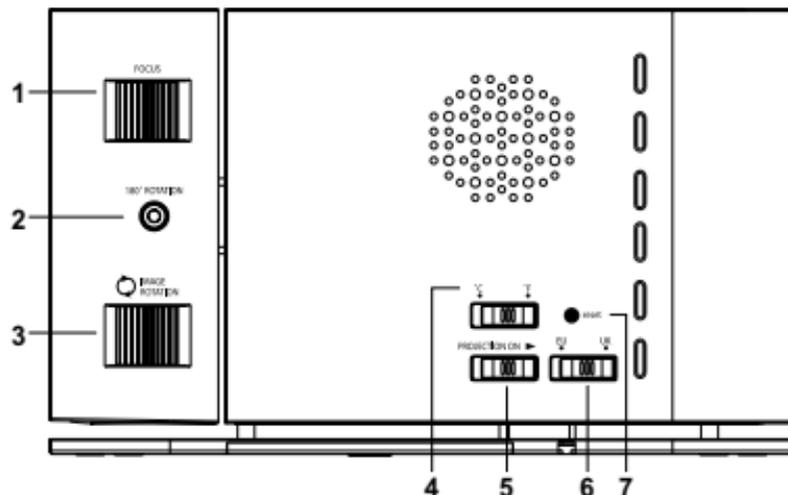7. Temperature Trend (→ 16)
8. Temperature (→14)

FRONT VIEW

BUTTON DESCRIPTIONS

1. Clock – set time / date or view seconds / day of week (→ 9, 11)

2. ▲ Up / ▼ Down – increase / decrease setting or activate / deactivate auto-synchronization (→ 9, 11)

3. Alarm – set / activate / deactivate alarm(→ 12)

4. Projector (→ 16)

BACK VIEW

DESCRIPTIONS

1. Projector focus knob (→ 17)
2. 180˚ rotation (flip image) button (→ 17)
3. Image rotation button (→ 17)
4. ˚C/ ˚F switch (→ 9, 15)
5. Projector switch (→ 17)
6. Radio signal format switch (→ 10)
7. Reset button (→ 18)

NOTE AC power adapter and battery compartment not shown.

REMOTE UNIT
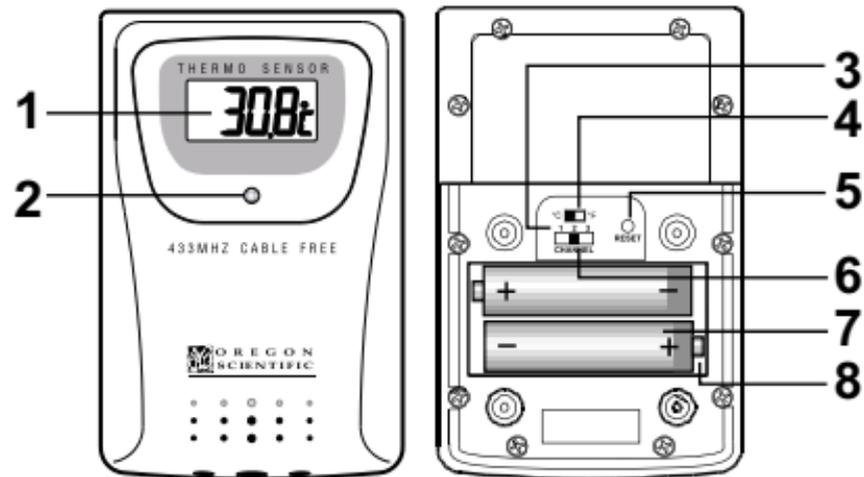
DESCRIPTIONS

1. Temperature (→ 14)
2. LED indicator (→ 10, 15)
3. Channel number (→ 9, 14)
4. ˚C/˚F switch (→ 9, 15)
5. Reset button (→ 18)
6. Channel switch (→ 9, 14)
7. Batteries (→ 8)
8. Battery compartment (→ 8)

GETTING STARTED

BATTERIES

Batteries for the remote and main units are supplied with this product. Replace them whenever the low battery signal ( ) displays. The battery door is located on the bottom of the main unit. Use a small Phillips screwdriver to remove the remote unit compartment lid. Be sure to match the correct polarity, as shown in the battery compartment. After you change the batteries, press the **RESET** button with the point of a blunt object (such as a ball point pen).

NOTE Insert the batteries in the remote unit before you set up the main unit. Do not use rechargeable batteries.

AC POWER ADAPTER

An AC power adapter is supplied for use with this product. You must connect the power adapter if you wish to use the continuous projection feature. The jack is located next to the battery compartment.

NOTE If the AC power becomes unavailable, the unit will automatically switch to battery power.

CHANGE SETTINGS

Press and hold **CLOCK** or **ALARM** for 2 seconds to enter setting mode. Then, press ▲ **UP** or ▼ **DOWN** to change each setting. Press and hold to enter fast-setting mode. Press **CLOCK** or **ALARM** to switch between settings.

REMOTE UNIT SET UP

Up to 3 remote units can be used with this product to monitor outdoor temperature. The measurement unit (˚C or ˚F) and channel number (1, 2, or 3) switches are located in the battery compartment, and should be set prior to installation.

NOTE Additional remote units sold separately. If you are using more than one remote unit, be sure to select a different channel number for each unit.

INSTALLATION

Mount the remote unit on a flat surface using the recess hole on the back of the unit.

For best results:

·   Before you insert the batteries, select the measurement unit and channel number first.

·   Place the unit out of direct sunlight and moisture.

- Do not place the remote unit more than 20 – 30 meters (60 – 90 feet) from the main (indoor) unit.

- Position the unit so that it faces the main (indoor) unit. Minimize obstructions such as doors, walls, and furniture.

You may need to experiment with various locations to get the best reception.

CLOCK

This product can automatically synchronize the date and time with official time-keeping organizations in Frankfurt (Germany) and Rugby (England). When the unit is within 1500 km (932 miles) of a RF signal, the reception icon will blink during reception.

SET RADIO SIGNAL FORMAT

The **RADIO SIGNAL FORMAT** switch is located on the back of the product. Select EU (DCF) or UK (MSF). Then, press **RESET** to reset the unit.
Reception takes 2 – 10 minutes to complete. Once complete, the icon will stop blinking.

Strong signal	Weak signal	No signal
📶	📶	

NOTE For best results, place the unit away from metal or electrical objects, and near a window with a clear view to the sky.

TO DISABLE OR ENABLE AUTO-SYNCHRONIZATION

Press ▼ **DOWN** for 2 seconds to disable the auto-synchronization. The unit will not respond to radio signals until you reactivate the synchronization.

To enable auto-reception, press ▲ **UP** for 2 seconds.

SET OR CHANGE THE CLOCK

Clock auto-synchronization must be deactivated before you manually set the clock.

EN

1. Press and hold **CLOCK** for 2 seconds to enter setting mode.

2. Select the 12/24-hour format, hour, minute, year, date/month format, month, date, and display language. Press ▲ **UP** or ▼ **DOWN** to change the setting. Press **CLOCK** to confirm.

NOTE The language options are (E) English, (F) French, (D) German, (I) Italian, and (S) Spanish.

VIEW DAY OF WEEK OR SECONDS
Press **CLOCK**.

ALARM

When activated, the Beep Alarm starts quietly, then gradually becomes louder until it crescendos at 1 minute. It shuts off at two minutes. The LCD display lights up for the first 5 seconds.

SET ALARM

1. Press and hold **ALARM** for 2 seconds to enter setting mode.

2. Select the hour, minute, and alarm type (▶ for Beep Alarm or ◀))) for Ferrari Engine). Press ▲ **UP** or ▼ **DOWN** to change the setting.

3. Press **ALARM** to confirm.

SNOOZE
Press **SNOOZE/LIGHT** to temporarily disable the alarm for 8 minutes. The alarm icon will blink while Snooze is activated.

TO TURN THE ALARM OFF OR ON
Press **CLOCK**, ▲ **UP** or ▼ **DOWN**.

To turn the alarm off completely (deactivate it for the next day), press ▼ **DOWN** when the alarm time is displayed. Press ▲ **UP** to activate the alarm again.

WEATHER FORECAST

This product forecasts the next 12 to 24 hours of weather within a 30 to 50 km (19 - 31 mile) radius with 70 to 75 percent accuracy. The weather forecast is always displayed.

Clear	Partly Cloudy	Cloudy	Rainy
☀	⛅	☁	🌧

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TEMPERATURE

With the press of a button, you can check the current indoor or outdoor temperature, trend, and record measurements. Outdoor measurements are collected by the remote unit.

VIEW MIN / MAX / CURRENT MEASUREMENTS
Press **MEMORY.**

CLEAR MIN / MAX MEASUREMENTS
Press and hold **MEMORY** for 2 seconds until a beep sounds.

SELECT REMOTE UNIT CHANNEL
Press **CHANNEL** to switch between 🏠 CHANNEL 1, 2, 3, or indoor. Or, press and hold for 2 seconds to enter auto scan mode. If you select "Auto", the channel will change every 3 seconds. Press **CHANNEL** or **MEMORY** again to deactivate this auto function.

SENSOR SEARCHING
Press **CHANNEL** and **MEMORY** to manually activate channel searching. The search icon will blink until the remote signal is found, or the search period times out.

Searching	Strong signal	No signal
🔍	📶	🏠

NOTE Signals from household electrical appliances such as doorbells and home security systems can cause temporary reception failures between the indoor and outdoor units. This is normal and does not affect the general performance of the product. Reception will automatically resume once the interference ends.

NOTE Check the remote unit batteries if no signal is found.

SET UNIT

The ˚C / ˚F switch is located on the back of the main unit, and in the battery compartment for the remote unit. Select ˚C or ˚F.

TRENDS

The temperature trend arrow for the last 30 minutes always displays.

Trend	Temperature
⟋	+ 0.5 ˚C
→	Steady
⟍	- 0.5 ˚C

BACKLIGHT

Press **SNOOZE/LIGHT** to illuminate the backlight for 5 seconds.

PROJECTOR

This product has a built-in projector for viewing the time.

NOTE The maximum projection range is 2 meters (6 feet). The image gets larger the farther you display it.

PROJECT THE TIME
In a darkened room, press **SNOOZE/LIGHT** to display the time for 5 seconds.

MOVE IMAGE
Adjust the projector arm.

FLIP IMAGE
Press the **180˚ Rotation** button while the projector is on.

ROTATE IMAGE
The **ROTATION** knob is located on the back of the projector. Rotate to adjust.

FOCUS IMAGE
The **FOCUS** knob is located on the back of the unit. Rotate to adjust.

CONTINUOUS PROJECTION
The AC power adapter must be plugged in to use this feature (→ 8). Slide the **PROJECTOR** switch located on the back of the product to the ON position.

RESET SYSTEM

The **RESET** buttons are located on the back of the main unit, and in the battery compartment for the remote unit. Press these buttons with the tip of a blunt object (such as a ball point pen) whenever you change the batteries, or whenever performance is not behaving as expected (e.g., unable to establish radio frequency link with remote unit or automatic clock). This will return all settings to default value, and you will lose any stored information (alarm and clock settings).

SAFETY AND CARE

Wash the unit with a slightly damp cloth and mild detergent. Avoid dropping the unit or placing it in a location where the AC power adapter will be stepped on.

WARNINGS

This product is designed to give you years of service if handled properly. Observe the following guidelines:

· Never immerse the unit in water. This can cause electrical shock and damage the unit.

- Do not subject the main unit to extreme force, shock, or fluctuations in temperature or humidity.
- Do not tamper with the internal components.
- Do not mix new and old batteries or batteries of different types.
- Do not use rechargeable batteries with this product.
- Remove the batteries if storing this product for a long period of time.
- Do not scratch the LCD display.
- Do not make any changes or modifications to this product. Unauthorized changes may void your right to use the product.

- The contents of this user guide are subject to change without notice.
- Images not drawn to scale. Colors may vary.

TROUBLESHOOTING

Check here before contacting our customer service department.

Problem	Symptom	Remedy
Calendar	Strange day of week	Change language (→ 11)
Clock	Cannot change clock	Disable auto-synching (→ 11)

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Problem	Symptom	Remedy
	Cannot auto-synch	1. Adjust batteries. 2. Press **RESET** (→18). 3. Manually activate auto-synch (→11). If it still fails, you may be too far from a signal.

Problem	Symptom	Remedy
Remote unit	Cannot locate	Check batteries (→ 8)
		Check location (→ 9)
Temp	Shows "LLL" or "HHH"	Temperature is out of range.

SPECIFICATIONS

Main unit dimensions

L x W x H	174 x 103 x 36 mm
	(6.85 x 4.06 x 1.42 inches)
Weight	388 grams (0.86 lbs)
	(with batteries)

Remote unit dimensions

L x W x H	92 x 60 x 20 mm
	(3.6 x 2.4 x 0.8 inches)
Weight	100 grams (0.2 lb.)

Temperature

Unit	˚C or ˚F
Indoor Range	-5 ˚C to 50 ˚C(23 ˚F to 122 ˚F)
Outdoor Range	-20 ˚C to 60 ˚C
	(-4 ˚F to 140 ˚F)
Resolution	0.1 ˚C (0.2 ˚F)
Memory	Minimum / maximum
Trend	+/-0. 5˚C change per 30 minutes

Radio-controlled clock

Synchronization	Auto or disabled
Clock display	HH:MM:SS
Hour format	12hr AM/PM (MSF format)
	24hr (DCF format)
Calendar	DD/MM or MM/DD user-selectable; weekday selection in 5 languages (E, D, F, I, S)

Alarm	Ferrari Engine or Beep; 2 minute crescendo for Beep		AC/DC 6V power adapter (for continuous projector)
Snooze	8 minutes	Remote unit	2 x UM-4 (AAA) 1.5V alkaline batteries

Remote unit
RF frequency   433 MHz
Range   30 meters (98 feet) with no obstructions
Transmission   every 40 seconds
Channel No.   1, 2, or 3
Unit   ˚C or ˚F

Power
Main unit   3 x UM-3 (AA) 1.5V alkaline batteries

ADDITIONAL RESOURCES

Visit our website (www.oregonscientific.com) to learn more about your new product and other Oregon Scientific products such as digital cameras, hand-held organizers, health and fitness gear, and weather stations. The website also includes contact information for our customer service department, in case you need to reach us.

C-DECLARATION OF CONFORMITY

This product contains the approved transmitter module TX 01 and complies with the essential requirements of Article 3 of the R&TTE 1999/5/EC Directives, if used for its intended use and that the following standard(s) has/have been applied:

Efficient use of radio frequency spectrum
(Article 3.2 of the R&TTE Directive)
applied standard(s) **EN 300 220-1(2,3):1997**

Electromagnetic compatibility
(Article 3.1.b of the R&TTE Directive)
applied standard(s) **ETS 300 683:1997**

Safety of information technology equipment
(Article 3.1.a of the R&TTE directive)
applied standard(s) **EN 60950:1997**

Additional information:

The product is therefore conform with the Low Voltage Directive 73/23/EC, the EMC Directive 89/336/EC and R&TTE Directive 1999/5/EC (appendix II) and carries the respective CE marking.

VS-Villingen / Germany August 2001
Gerhard Preis
R&TTE Representative of manufacturer

$C\epsilon$ 0682 ①
COUNTTRIES RTTE APPROVAL COMPLIED

All EC countries, Switzerland Ⓒℍ,

and Norway Ⓝ

O R E G O N
SCIENTIFIC

Ferrari
OFFICIAL LICENSED PRODUCT

**Radio-Controlled Projection Clock with
Indoor and Outdoor Temperature**

(Model #: FSP-301 Maranello)

User Manual