

UNIVERSAL EUROPEAN TEMPERATURE RECORDER "OPEN"

FOCUSED TO FLEET MANAGEMENT SYSTEM COMPANIES EASY
INTEGRATION: "PLUG AND PLAY"

EN 12830 - 2019

Compliant for:  European countries

PHARMACEUTICAL INDUSTRY
FOOD SECTOR
ANIMAL TRANSPORT



European



Homologated
EN12830



Cheaper



Easier



For all
customers!



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TEMPERATURE RECORDER

OPEN

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Technical support: (+44) 772 431 3334
help@universalrecorders.com

Unique in the European market!

The **cheapest thermograph** on the European market
New temperature recorder **approved for Europe complies with the EN12830** standard and the corresponding standards in each country (Spain ITC 3701/2006 - ITC 155/2020).

Temperature recorder with **disconnectable probes!**
Installation in 10 minutes

Just connect your GPS system by serial to the temperature recorder, **add 1 commands to your system** and that's it! Easy and simple.

Do you need to print? Add any bluetooth printer on the market, connect it and print!



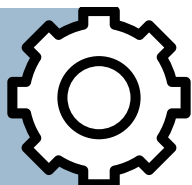
Temperature recorder **homologated EN12830**

Class 0,5

Compliant for transportation, distribution, storage: **EN 12830 + EN13845 + EN 13486**

Ministry of health (Spain): Sanidad/Farmacia/Alimentación: **ICT 3701/2006 + ICT 155/2020**

Features



Temperature sensor with 1 sensor, expandable up to 2 sensors
Detachable temperature sensors **one-of-a-kind**
Interchangeable sensors of easy installation, replacement and validation

Configuration/communication with temperature recorder
by free App
Printer optional/external Bluetooth printer
Screen data by App in mobile



Fleet management systems connection: Serial port RS-232
Power: 12-24VDC

Terms and conditions of guarantee

The complete terms of the guarantee of ANDRA SOLUTIONS are described below.

Through this Guarantee, ANDRA SOLUTIONS guarantees that the product is free from defects in materials and manufacture on the original purchase date for a period of ONE YEAR from that date. If within the warranty period it is determined that the product is defective (on the date of original purchase) due to inadequate materials or manufacture of device, ANDRA SOLUTIONS without charge for parts, will repair or (at the discretion of ANDRA SOLUTIONS) will replace the product or its defect. Parties subject to the terms and limitations below. ANDRA SOLUTIONS can replace defective products or parts with new or reconditioned products or parts. All replaced products and parts become the property of ANDRA SOLUTIONS.

CONDITIONS Warranty services will be provided only if the defective product is presented within the warranty period. ANDRA SOLUTIONS can reject the free warranty service if the product is not presented within this period. This warranty will not apply if the model name or serial number of the product has been altered, removed, removed, or illegible. To avoid data damage or loss / erasure, you must download any data before submitting your product for warranty service. This warranty does not cover transportation costs and risks associated with the transportation of your product to and from ANDRA SOLUTIONS.

This warranty covers only the hardware components of the product. It does not cover software (whether from ANDRA SOLUTIONS or others) for which an end-user license agreement is provided or is intended to apply or independent warranty / warranty statements or exclusions. This warranty does not cover: - misuse, including: • treatment resulting in physical, cosmetic or superficial damage or changes to the product; • failure to install or use the product for its normal purpose or in accordance with the installation or use instructions; • Failure to maintain the product in accordance with the instructions on proper maintenance; • installation or use of the product in a manner incompatible with the laws or technical or safety standards of the country where it is installed or used. – Programmes Virus infections or use of the product with software not provided with the product or incorrectly installed software - The condition or defects in the systems with which the product is used or incorporated, except other ANDRA SOLUTIONS products designed to be used with the product. - Use of the product with accessories, peripheral equipment and other products of a type, state and standard other than those prescribed by ANDRA SOLUTIONS. - Repair or attempted repair by people who are not approved by ANDRA SOLUTIONS - Adjustments or adaptations without the prior written consent of ANDRA SOLUTIONS, which include: • updating the product beyond the specifications or characteristics described in the manual of instructions, or • modifications to the product to conform to national or local technical or safety standards in countries other than those for which the product was specifically designed and manufactured; negligence; accidents, fires, liquids, chemicals, other substances, floods, vibrations, excessive heat, inadequate ventilation, power surges, excessive or incorrect input voltage or supply, radiation, electrostatic discharge, including lightning, other external forces and impacts.

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Note: For the Spanish market, when an EQUIPMENT WITH A “**VERIFICACIÓN PRIMITIVA**” CERTIFICATE is REQUESTED, issued by a control organism/governmental, and the equipment is returned. **This cost of the “VERIFICACIÓN PRIMITIVA” certificate is NOT included in any part of the guarantee**, as it is a document issued by third parties and expires. And the value expressly indicated in the commercial offer will not be returned under any circumstances.

USER AND INSTALLATION MANUAL

Learn to use “Open” in 5 minutes

Dimension



Protection level

IP 65 – Easy for installation in external environments

Power



Red wire - Positive - 12/24 V (do not use red + with wire)

Black wire - Negative - Ground

Digital sensor

Digital sensors has 2 wired: **Red wire (data)** and **black wire (negative/ground)**

Sensor 1 connection

Blue dark + white wire from device - connect to red wire of sensor

Sensor 2 connection (optional)

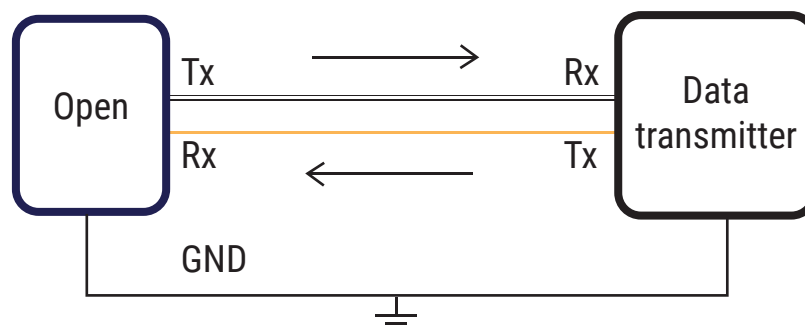
Green wire from device - connect to red wire of sensor 2

Communication RS-232









White wire - Transmision (TX) - Connect to RXD from external device

Orange wire - Reception (RX) - Connect to TXD from external device

GND - Connect to the ground



Complete connection diagram

| | | |
|-------------|---|-------------|
| RED |  | 12 / 24 VDC |
| BLACK |  | GND |
| WHITE+BLUE |  | SENSOR 1 |
| GREEN |  | SENSOR 2 |
| WHITE |  | TX |
| ORANGE |  | RX |
| WHITE+BLACK |  | GND |
| WHITW+RED |  | +5V OUTPUT |

Transmission configuration

| Parameter | Value |
|-----------|--------|
| Baudrate | 115200 |
| Data bits | 8 |
| Parity | None |
| Stop bits | 1 |

RS-232 Commands

| | |
|----------------|--|
| AT+TEMP | Returns in five lines the T1, T2, T3, T4 probe temperatures and OK, respectively |
|----------------|--|



If you need more info: (+44) 772 431 488
help@termografo.eu

Smartphone App Android

Download **Andra Telematics** in Google Play or App Store

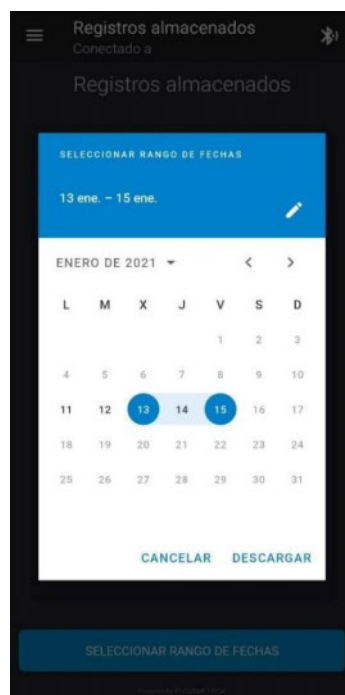
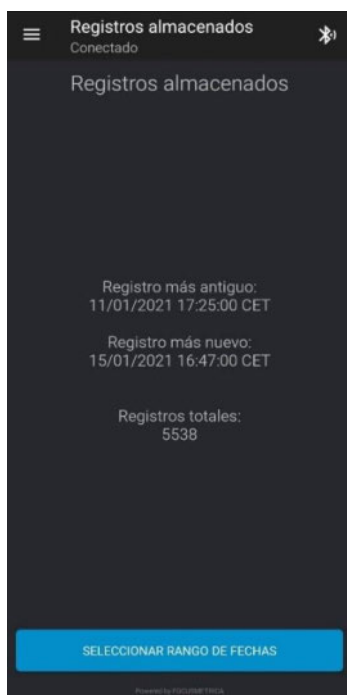


Real time display: In this display you can see temperature and state from inputs and outputs in real time.



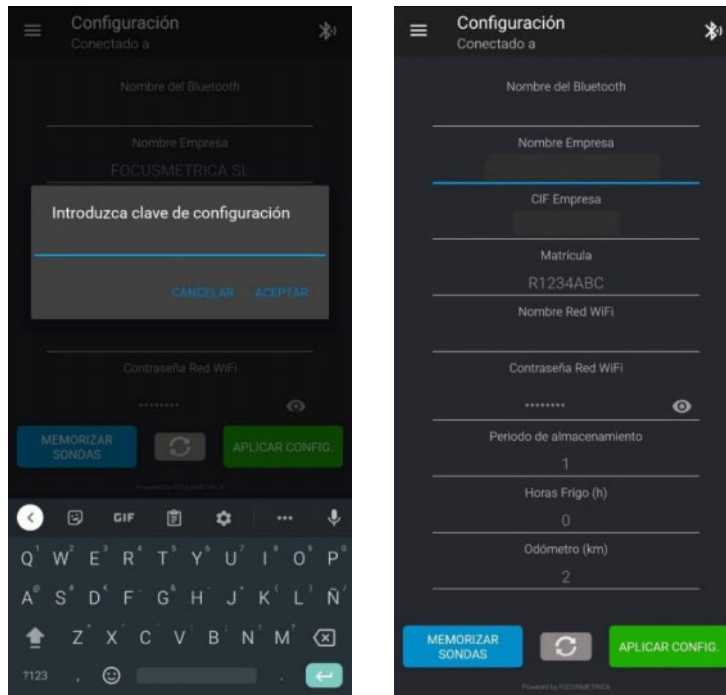
Principal display

Stored records screen: On this screen you can select download storage records in the internal memory of the device. You can select date range and download the records. You look like a list:



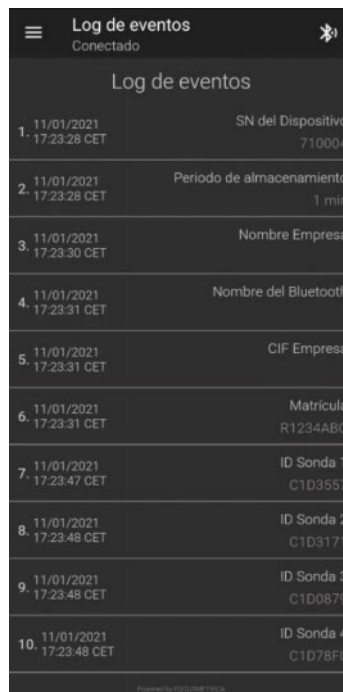
Stored records screen

Configuration display: You can control the device in this screen. You need password that you received into your invoice. All changes will be recorder in events LOG



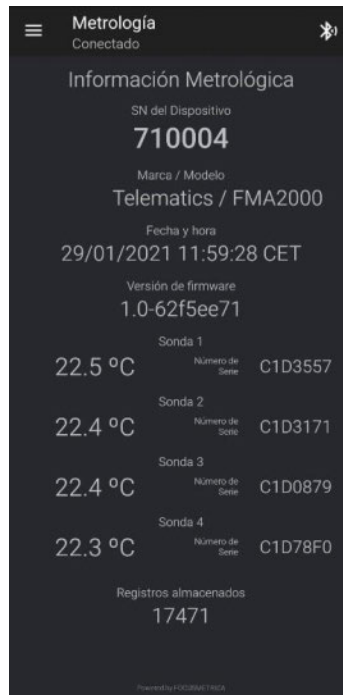
Configuration display

Events Log screen: You can watch all configuration changes that the device was received.



Events log

EN-12830 data screen information: Show all relevant information from device. Serial number, Data, software version and CRC, Sensor temperature identification:



EN-12830 data screen information



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