

Thermo Tracer[®]

TEMPERATURE MONITORING FOR LARGE-SCALE APPLICATIONS



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multi-sector solution



HEALTHCARE

PHARMACEUTICAL INDUSTRIES

medicine transportation
storage
clinical tests
process

BLOOD TRANSFUSION SERVICES

transportation
storage

HOSPITALS

laboratories
pharmacies
blood banks

PHARMACIES (DISPENSARIES)

AGRI-FOOD

RESTAURANTS (HACCP)

TRANSPORTATION

MASS DISTRIBUTION

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TEMPERATURE MONITORING FOR LARGE-SCALE APPLICATIONS

SOLUTION FOR RECORDING TEMPERATURE FOR UP TO ONE YEAR

Whether or not temperature monitoring is a regulatory obligation in your field, you need to be aware of the thermal conditions surrounding your products during storage and transportation in order to ensure their quality.

This requirement for quality also applies to your temperature monitoring systems.

YOU NEED AN APPROVED SYSTEM THAT IS AUTONOMOUS, MODULAR, AND RELIABLE.

YOUR SYSTEM NEEDS TO BE SIMPLE, SMALL, UPGRADABLE AND EFFICIENT.

AN EFFECTIVE SYSTEM HAS TO BE COST-EFFECTIVE, DURABLE AND APPROPRIATE FOR MOBILE LOGISTICS.

EN 12830 CERTIFIED

- Programmable battery-powered sensor/recorder
- Highly resistant stainless steel sensor
- Individually tested, delivered with calibration certificate
- Permanent or temporary mounting systems
- Setup and reading software available separately
- Unlimited telephone technical support



POWERFUL AND EASY SOFTWARE

The software provided with ThermoTracer is extremely easy to use, yet it gives you total control for configuring and reading your sensor/recorder:

- Sets measurement intervals and configures start and end dates visually.
- Defines upper and lower alarm levels.
- Exports data to Excel, Word, PDF, automatic archive.
- Includes module for superimposing graphs.
- May be used with 3-D color thermal cartography module (optional).
- Stores programming log.
- Offers delayed or programmable startup.



A HIGHLY RELIABLE MINI-RECORDER

- Small footprint recorder (17 mm in diameter, 3.3 g).
- Unique serial number on each unit.
- Temperature range: -40°C to +85°C.
- Autonomous device records temperature readings automatically.
- Correction parameters (after calibration) stored in memory in each sensor.
- Uncertainty of measurement under 0.5°C.
- Capacity: 2048 readings.
- Configurable measurement interval from 1 to 255 minutes.



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SENSOR/RECORDER TECHNICAL SPECIFICATIONS

ELECTRONIC RECORDER THERMOMETER

Digital recording thermometer with internal probe and integrated power source. Configure thermometer and read data right from your PC.

Temperature range ¹	-40°C to +85°C
Measurement steps	0.5°C
Uncertainty of measurement	+/- 0.5°C
Measurement interval	1 min. to 255 min
Response time (or thermal inertia) ²	less than 4 min
Available memory for storing temperature readings	2048 readings
Available memory for additional information	4096 bits
Data transfer	speed: 142 Kbits/s Cable connection to PC
Calibration	performed at factory using perfluoropolyether bath procedure
Dimensions (diameter x thickness)	17.35 x 5.89 mm
Casing	"Stainless 305" stainless steel ³ watertight polypropylene joint
Protection rating provided by casing	IP65
Weight	3.3g
Power	Panasonic or Rayovac type BR1225 or CR1220 Lithium battery
Battery life	5 to 10 years depending on operating temperature
Clock	real time YY/MM/DD/hh/mm/ss software configurable handles leap-years
Clock accuracy	+/- 2 min. per month
Identification	unique serial number laser engraved on casing, stored in secure 48-bit memory

¹tests performed: 1000 cycles of -40°C to 85°C; 1000 hours at 60°C and 90% relative humidity; 2000 hours storage at 85°C..

²response time or thermal energy: time required for measured temperature value to reach 90% of real temperature variation.

³steel composition: carbon 12%, magnesium 2%, phosphorus 0.045%, sulfur 0.03%, silicon 1%, chrome 17 to 19%, nickel 10.5 to 13%.

Oceasoft S.A.S.

4 - Parc Club du Millénaire - 1025 rue Henri Becquerel - 34000 Montpellier

tél. : +33(0)4 99 13 67 30 - fax +33(0)4 67 42 84 13

www.oceasoft.com - info@oceasoft.com

