

REC96-2008

**Compliance to
EN12830**



Thermorecorder for trucks

GSM connection



MADE SISTEMI

HARDWARE E SOFTWARE

REC96-2008

Approved from the Ministry of the Productive Activities
with D.M. n° 552138 of 8 July 1997 and ulterior modifications
In compliance with norm EN-12830

Easy installation and use

The sensors are already connected to the device and the system is already laboratory set, therefore no adjustment interventions are needed before use. The thermo-recorder is equipped with a back-lit 12x3 LCD screen displaying the temperature read in addition to the current date and time. The graphic icons show the state of the sensors and of events on running.

The "C" version has been developed inside a "Standard Iso Radio" size to reduce the installation space, while the "E" version is equipped with the accessories to fix it to a wall.

To complete the installation are available alarm repeaters for the remote control of the device.

Data recording - Wide memory

Programmable recording interval is fixed to 15 min. but can be programmed from 1 to 60 min., with appropriate software. A memory of 32.000 recordings is available on each channels of measure, after this threshold the new data will be limited to cancel the first inserted ones. In order to optimize the memory of the device a remote command ignition is present "autostart" that moreover allows to facilitate the printing functions.

Internal printer

The thermo-recorder incorporates a module with dot mechanism printer that uses normal cellulose paper for a longer conservation of printout reports.

It is possible to print ticket in double copy
The roll paper used have a diameter of 30 mm and 57 mm wide.

Functions

- Identification of the REC96-2008 is tied to a unique and not modifiable 8 characters internal code. Another 12 characters personal code is programmable from user.
- Automatic day-light saving time.
- The research resolution for data printout is daily, and permits a printout of real or average recorded data. The direct printing configuration, settable in "Mission", "Last ON", "Last no. of Days" and "Delivery ticket", is directly modifiable from user menu.
- Connection to optional GSM module for the transmission of SMS for fault signalings or thermostat alarm, and the download of the stored data from the thermo-recorder.
- Control in real time of the temperature of transport with GSM or satellite connection.
- The activation of SMS service, as the activation of the thermostats is possible directly from the user menu.
- Management of GSM service by means "CALLCENTER". Auto diagnostic system for the control of the state and of the consumption.

Software

An appropriate management software store the data of the REC96-2008 for a successive graphical, text or histogram representation of the recorded temperatures.

Technical characteristics

Power supply	10/32 VDC
Absorbed current (while not printing; 12VDC)	40 mA
Absorbed current (average in printing; 12VDC)	350 mA
Back-lit LCD Display	12 x 3 carat.
Division displayed	0.5 °C
Memory	32.000 x 2 Byte
Measurement cycles interval	1-2-5-10-15-20-30-60 min.
Field of recording	-59,5 + 59,5 °C
Precision	+/- 0.5 °C (-30°C +30°C)
Thermostat alarm threshold	(pre-adjusted) -15 °C
Alarm out	Yes
Connection to GSM-GPS module	Yes
Field of use	-40 / +80 °C
Sensor connected	2 mod. PT100 a 3 wire
Response time	120 sec
Protection rating sensor	IP 68

	2008 C	2008 E
Protection rating REC	IP 40	IP 65
Dimensions	186x56x160 mm	213x185x113 mm

Panoramic



Mod. 2008 E

Mod. 2008 C



Dealer

MADE SISTEMI

via Berlinguer, 59 - 47034 - Forlimpopoli (FC) Italy
Tel/Fax: 0543 74 31 27 - info@makesistemi.it - www.makesistemi.it