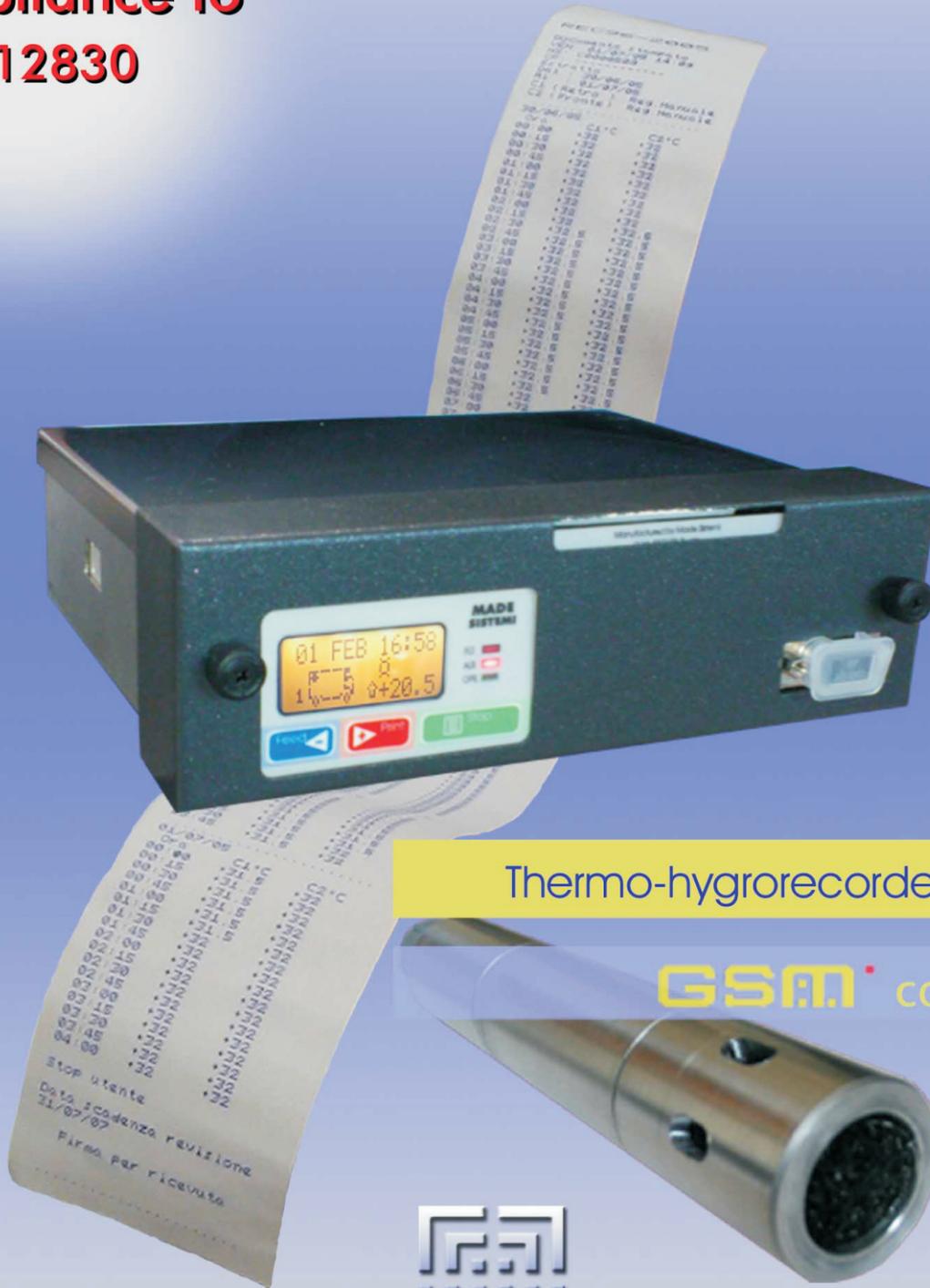


R-20083U

**Compliance to
EN12830**



Thermo-hygrorecorder for trucks

GSM connection



MADE SISTEMI

HARDWARE E SOFTWARE

R-20083U

Easy installation and use

The sensors are already connected to the device and the system is already laboratory set, therefore no adjustments interventions are needed before use. The thermo-hygrorecorder is equipped with a back-lit 12x3 LCD screen displaying the temperature and humidity measured 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

Recording interval can be programmed from 1 to 60 min., with appropriate software. A capacity of memory of 16000 record on each channel allow to store about 200 effective working days with a recording interval of 20 min. After this threshold the new data will be limited to cancel the first inserted ones. In order to optimize the memory of the device is present a remote command ignition "autostart" that moreover allows to facilitate the printing functions.

Printer

The recorder incorporates a module with dot mechanism printer that use normal cellulose paper for a longer conservation of printout reports. It is possible to printout ticket in double copy. The roll paper used have a diameter of 30 mm and 57 mm wide.

Functions

- Identification of the R-20083U 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 permit 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, hygostat and digital input 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.

Applications

For all the transport in which the temperature and the humidity concur to the wellness of live animals (imposed by regulation (CE) no. 1/2005 of 22/12/2004) and of products where these factors are necessary for a correct safe storing (ie : grains e medicinals)

Software

An appropriate management software store the data of the R-20083U for a successive graphical, text or histogram representation of the recorded temperatures.

Technical characteristics

Power supply	10/32 VDC
Consumption (printing; 12VDC)	40 mA
Consumption (average printing; 12VDC)	350 mA
Display LCD	12 x 3 backlite
Division displayed	0.5 °C
Memory	32.000 x 2 Byte
Recording interval	1-2-5-10-15-20-30-60 min.
Temperature measure range	-59,5 / + 59,5 °C
Humidity measure range	0,5 / 99,5 % RH
Temperature precision	+/- 0.5 °C (-30°C +30°C)
Humidity precision	+/- 3.5 % (a 25°C)
Thermostat alarm	-59 / +59 °C
Hygostat alarm	1 - 99 % RH
O.C. alarm input	Yes
Digital input	n°2 (optocoupled)
GSM/satellitare connection	Yes
Field of use	-40 / +80 °C
Associable temperature sensor	2 mod. PT100 with 3 wires
Associable humidity sensor	1 mod. capacitive
Temperature response time	120 sec
Humidity response time	> 3 min.
Temperature sensor degree of protection	IP 68
Humidity sensor degree of protection	IP 10

	20083UC	20083UE
Degree of protection	IP 40	IP 65
Dimensions	186x56x160 mm	213x185x113 mm

Panoramic



Mod. R-20083UE



Mod. R-20083UC

Dealer

[Compliance to EN12830 - Full made in Italy](#)

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