Wireless sensor: TM6640

Radiofrequency Communication
Monitoring
Quick installation: No cabling

When sensors are spread over large distances, radio transmission is the right tool to fill your needs. This solution avoids to use cables, and make installation easy.
TM 6640 serie can use temperature sensors as well as 4-20mA and transmit data to a computer.
They are also economically very attractive.

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Specifications:
One module TM6640 can measure 2 temperatures with Pt100..
Other modules are available for:
- 4-20mA from pressure sensor, pH, humidity and contacts
- alarm output relays

Global system can manage upto 256 modules, thanks to a multi channel link
Data are transmitted to a computer thanks to a modem, which also store data while computer is not powered.
Each module is also considered as a repeater, and create a Mesh network
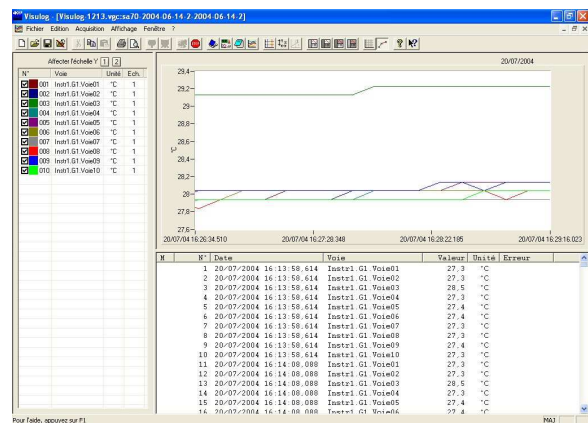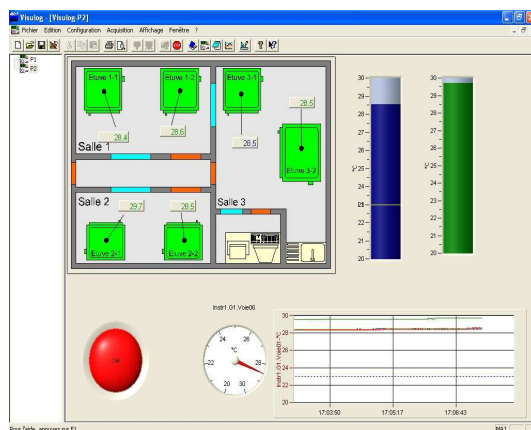
Applications:
Monitoring

Temperature with door Opening/closing
Display of average, maximum, minimum and standard deviation of each sensor
Display is performed as mimic diagram, curves and values

Control system and environmental monitoring

Real time monitoring

Technical specifications:

Temperature with RTD sensor IEC 751

sensor	range	Display resolution	Software resolution	Accuracy @1 year
PT100	- 200 ℃ to 850 ℃	0.1℃	0,01℃	0.1% L+0,3℃
Current	0-24mA	0,1% P.E.	0,01%	0,3%+20µA
Voltage	0-12V	0,1% P.E.	0,01%	0,3%+ 10mV

Power
; lifetime 1 year

Modem:
Powered by USB or 4 batteries AA
Memory:30000 measurements

Communication:
ISM radio transmission
100 meters
Frequency 868 MHz
European conformity:
 EN 300-220, EN 301-489

EMC conformity
EN 61326
Emission EN 55022, EN 61000-3-2, EN 61000-3-3.
Immunity : EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11.
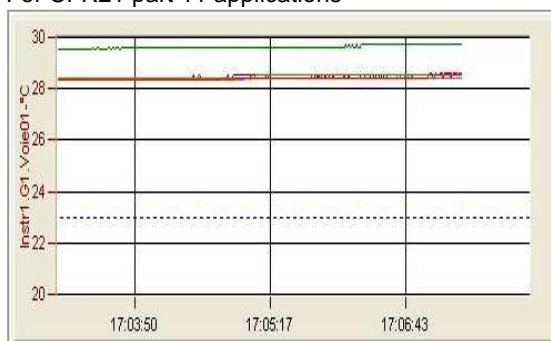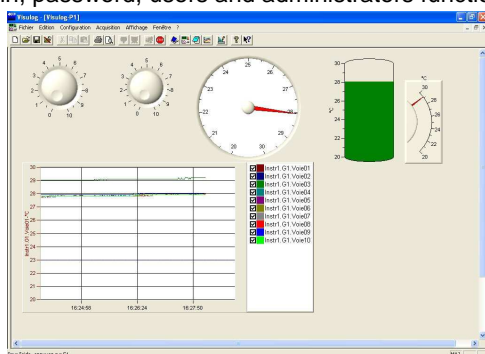**Working conditions**
According to publication CEI 359 .
Reference domain : 23 ℃ ± 1 ℃, Relative humidity : 45 % to 75 %.
Main domain : 0 ℃ to + 50 ℃, Relative humidity: 2 0 % to 80 % w/o condensation.
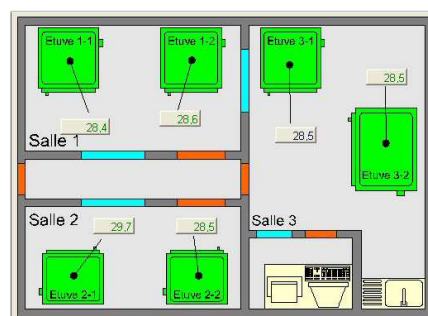Storage and transportation limit domain : - 30 ℃ to + 70 ℃ .

Associated software

VISULOG-TM: Monitoring , traceability and real time software,
Login, password, users and administrators functionalities. For CFR21 part 11 applications

Ordering instructions:

TM6640-1T: **Stand alone temperature sensor**
TM6640 RM: **USB memory modem**
TM 6640 PRO: **Process sensor**
TM6640 AR: **Output relay sensor**