Thermometer for external probe with display

code: S0111
Thermometer is designed for record of temperature. Values are stored to a non volatile electronic memory. Data transfer to the personal computer for further analysis is performed via USB, RS232, GSM or Ethernet interface by means of a proper adapter.
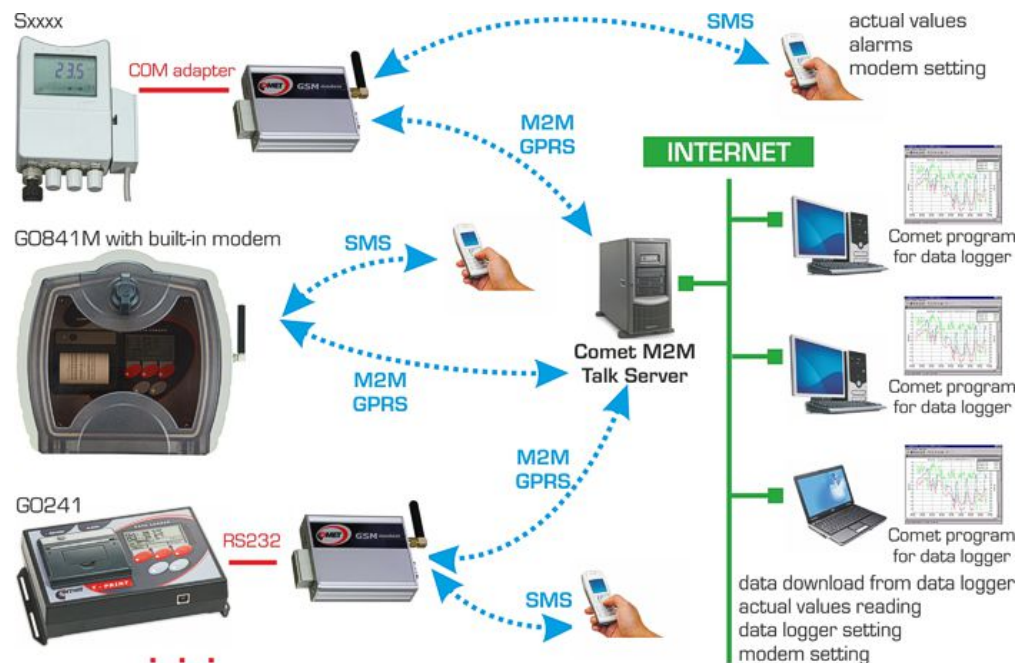
ANDROID APP ON Google play

Free Android Downloader for Data Loggers   The device **includes Traceable calibration certificate** with declared metrological traceability of etalons is based on requirements of **EN ISO/IEC 17025 standard**.
For communication with the PC must be from Optional accessories ordered USB adapter, LAN adapter or COM adapter or start/stop magnet if is needed to control logging the other way than directly from computer.

Features

Main thermometer applications:

- Transport of food or pharmaceuticals
- Food and beverage industry (HACCP)
- Pharmaceutical industry
- Blood stations, pharmacies
- Horticulture and cultivation of plants
- HVAC (heating, ventilation, air conditioning, cooling)
- Building and energy management
- Research and development
- Laboratories (GLP)
- Warehouses
- Technological processes
- Museums, archives, galleries
- [TÜV SÜD certified to conform to EN 12830](#),
  Class 1 and EN 13486, Class 1 for the transport of food

Thermometer advantages:

- included traceable calibration certificate from the manufacturer - Comet
- fast data transfer to the PC (full memory for approximately 30s)
- variability of connection to the computer - USB, RS232, Ethernet, [GSM modem](#)
- permanent connection to the PC enabled, data is possible to download even during logging
- large data memory 32000 values
- optional display of minimum and maximum measured values (reset of min/max memory from PC or by magnet)
- dual level alarm is enabled for each channel, alarm is indicated by blinking of the LED diode
- two alarm modes are enabled: instant or with memory (detected alarm is indicated permanently till alarm memory is cleared from the PC)
- robust watertight case
- easy installation, locking enabled

- low power consumption from battery, battery life up to 7 years
- indication of remaining battery life, easy replacement of the battery
- standard temperature sensor is Pt1000/3850ppm, switchable to Ni1000/6180ppm external probes at range -50 to +150°C
- it is possible to combine temperature measurement with logging of contact state (e.g. door contact)
- logging start/stop is enabled in several ways: at certain time and date programmed from computer, by delivered magnet
- also special logging mode is enabled, when logging runs only, if some of measured values are out of adjusted alarm limits
- each logger is possible to describe with text of maximum 32 characters
- each channel is possible to describe with text of maximum 16 characters
- password protection is enabled to prevent unauthorized manipulation with logger

Included in delivery:

- Data logger including the battery
- Traceable calibration certificate with declared metrological traceability of etalons is based on requirements of EN ISO/IEC 17025 standard.
- Quick start manual

- Free basic Windows software is ready to download at folder Download

Technical Data

Technical parameters	Value
Measured Value	Temperature
Construction Type	For External Temperature Probes Pt1000
Temperature Measuring Range	-90 to 260 °C
Two-State Input	No
Lcd Display	Yes
Built-In Printer	No
Operating temperature range	-30 to +70°C
Accuracy of temperature input without probe	±0.2°C from -50 do +100°C ±0.2% from reading from +100 to +260°C ±0.4% from reading from –90 to –50°C
Resolution of the reading	0.1°C
Real time clock	year, leap year, month, day, hour, minute, second
Data logging interval	adjustable from 10s to 24h
Display and alarm refresh	each 10 s
Total memory capacity	32000 temperature values in noncyclic logging mode
Data logging mode	noncyclic - data logging stops after filling the memory cyclic - after filling memory oldest data is overwritten by new
Dimensions	93x64x29mm
Power	Lithium battery 3,6V, size AA
Typical battery life	6 years
Battery life in continuous on-line mode with interval 1 minute	reduced to 70% of the above life
Battery life in continuous on-line mode with interval 10 second	1 year
IP protection	IP67 - protected against influence of temporary immersion into water
Weight including battery	115g
Warranty	3 years