

## COMMETER THERMOMETERS -200 to +500 °C for RTD Pt1000 and Ni1000 sensors for actual measurement and logging



- dual line LCD display with special symbols
- adjustable dual level alarm with audio indication for each channel
- memory of minimum and maximum temperatures
- function Hold - manual storing of actual temperature for later displaying

### AVAILABLE MODELS:

DO211	single channel
DO221	dual channel with possible reading of temperature difference among channels
DO241	quad channel

Instruments are designed for direct measurement and datalogging to internal nonvolatile memory in adjustable time interval. Recorded data is possible to transfer by means of included program via serial RS232 link to a PC for archiving or analyzing. Instrument is connected to a PC by included communication cable only for data transfer from the memory. During connection to the PC nor measurement and record is enabled.

TECHNICAL PARAMETERS:	
Operating temperature range:	-30 to +65 °C
Temperature input:	RTD Pt1000-3850ppm/°C, from -200 to +500 °C
Temperature input:	switchable RTD Ni1000-6180ppm/°C, from -50 to +250 °C
Temperature probe connector:	Cinch
Accuracy of the Pt1000 input without probes:	±0.3 °C from -50 to +100 °C, ±0.3% from reading from +100 to +500 °C ±0.6% from reading from -200 to -50 °C
Accuracy of the Ni1000 input without probes:	±0.2 °C from -50 to +100 °C, ±0.2% from reading from +100 to +250 °C
Resolution:	0.1 °C from -99.9 to +500 °C, otherwise 1 °C
Power:	battery 9V, typical battery life 6 months
Mechanical dimensions:	141 x 71 x 27mm
Modes of logging:	<b>1. manual logging</b> - capacity of 1000 stored temperature sets <b>2. automatic noncyclic logging</b> (logging stops after filling the memory) - total capacity of 16000 values <b>3. automatic cyclic logging</b> (logging continues after filling the memory - oldest values are replaced by newest) - total capacity approx. 15200 values (14400 values for DO211)
Real time clock:	year, leap year, month, day, hour, minute, second
PC interface:	serial RS232
Sampling interval in logging:	18 adjustable values from 10s to 24hours

Thermometers are delivered without probes. To order probes, please see below.

**INCLUDED ACCESSORY:** Traceable calibration certificate from the manufacturer, instruction manual. Calibration certificate with declared metrological traceability of etalons is based on requirements of EN ISO/IEC 17025 standard. Included is also plastic transport case, 9V battery, communication cable for PC. Loggers are equipped with connector for external ac/dc adapter. Free Windows program is ready to download at [www.cometsystem.cz](http://www.cometsystem.cz) Program enables to control all logger functions and viewing and printing of data in numerical and simple graphic formats. It is possible to export data to dbf or txt formats.

- OPTIONAL ACCESSORY:**
- MP006** - RS232/USB converter for communication with the PC via USB port
- SW100** - CD with free PC program
- probes** with RTD sensor Pt1000/3850ppm with connector Cinch  
- probe marking followed by letter /C
- A1515** - adapter 230V-50Hz/12Vdc.  
9V battery should be replaced with NiCd accumulator 9V
- A3400** - NiCd accumulator 9V
- SWR004** - Optional software for Windows  
- color printing, vertical and horizontal zooming of graphs and other functions

Tested by accredited laboratory accordingly with **EN 12830** -  
**Temperature recorders for transport, storage and distribution of chilled, frozen food.**

**WARRANTY: two years.**