

METRUM 2

Dual Channel Digital Thermometer




METRUM 2 Dual Channel Digital Thermometer has been designed to meet the demands of fertility clinics and research laboratories.

Temperature accuracy and consistency in probe placement are crucial factors that affect success rates in IVF.


- Ultra-thin $\varnothing 0.34\text{mm}$ needle probe with probe stand for media temperature measurements.
Facilitates consistent probe placement which has an impact on success rates.
- Ultra-thin $\varnothing 0.23\text{mm}$ flexible probes for Incubator/Embryoscope temperature measurements (alternative to the liquid temperature measurement probe).
- $\varnothing 35\text{mm}$ copper flat disk temperature probe for surface temperature measurements.

It is small in size and extremely easy to use. It delivers accurate and repeatable temperature measurements saving precious time on QC operations.

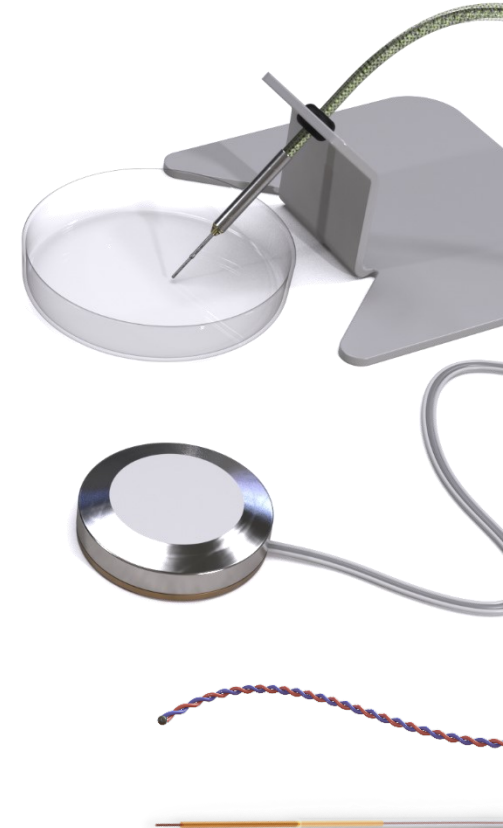
 **High Accuracy**
Temperature accuracy
0.03°C for both channels

 **Dual Channel**
Dual channel temperature
measurement

 **MicroSD Card**
Data logging on
MicroSD card

 **Desktop Software**
Real time data
viewing on PC

 IEC/EN 61010
IEC/EN 61326



“ Designed and engineered for accuracy and reliable results every time ”

Metrum 2 Thermometer Features

- Dual-channel temperature measurement.
- Temperature display Celsius/Fahrenheit.
- Ambient temperature measurement.
- Displays Minimum, Maximum, or Average temperature.
- Hold function.
- High and low alarms for rapid detection of temperatures outside the limits.
- Date and time display.
- Powered by a single 9V battery.
- Ability to power via USB (Adaptor included).
- Adjustable auto power off function.
- Battery life indicator.
- USB connectivity to monitor/analyze temperature on PC.

TMP1000S			
Operating temperature	5°C to 40°C	Automatic power off	Default 5min / adjustable
Display type	Custom LCD	Battery type	1 x 9V Alkaline battery
Display range	-573.32°C to +537.77°C	Battery life	Approximately 60 hours (*)
Display resolution	0.01°C	Power supply	Micro USB (PC/adaptor)
Thermometer accuracy	0.03°C	Dimension (L x W x H)	203mm x 66mm x 54 mm
Temperature resolution	0.01°C	Net weight	180g
Connectivity	USB	Standard warranty	2 Years

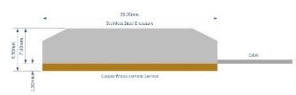
(*) Tested with a Duracell Ultra Alkaline Battery

Liquid Temperature Measurement



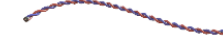
TSP1000P1	
Sensor type	T-Type thermocouple
Dimensions	Sensor tip $\phi = 0.34\text{mm}$; sensor tip length = 12mm; cable length = 1500mm; cable thickness = 2.5mm
Measuring range	-50°C to +200°C
Accuracy	0.03°C between 0°C to 50°C
Response time	0.13s to 0.25s

Surface Temperature Measurement



TSP1000P2	
Sensor type	3 wire RTD
Dimensions	Sensor disk $\phi = 35\text{mm}$; disk height = 8.5mm; cable length = 1000mm; cable thickness = 0.8mm
Measuring range	-50°C to +200°C
Accuracy	0.03°C between 0°C to 50°C
Response time	< 50s

Embryoscope/ Incubator/ Petri dish Temperature Measurement

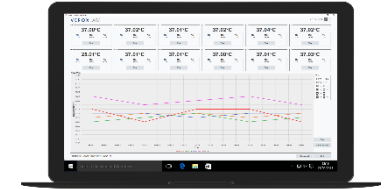


TSP1000P3	
Sensor type	T-Type thermocouple
Dimensions	Sensor tip $\phi = 0.23\text{mm}$; cable length = 910mm; cable thickness = 0.23mm
Measuring range	-100°C to +150°C
Accuracy	0.03°C between 0°C to 50°C
Response time	0.025s to 0.05s



TSP1000P4	
Sensor type	T-Type thermocouple
Dimensions	Sensor tip $\phi = 0.23\text{mm}$; cable length = 910mm; cable thickness = 0.23mm
Measuring range	-50°C to +70°C
Accuracy	0.03°C between 0°C to 50°C
Response time	0.02s to 0.04s

PC Software



Hard Carry Case



Metrum 2 MSA Multi Sensor Adaptor



High Accuracy

Temperature accuracy < 0.03°C for all 10 channels



10 Channels

10 surface temperature measurement channels



MicroSD Card

Data logging on MicroSD card



Desktop Software

Real time data viewing on PC

Metrum 2 MSA Features

- Up to 10 temperature measurements.
- Interface to Metrum 2 Thermometer via Micro USB.
- Temperature display Celsius/Fahrenheit.
- Computes Minimum, Maximum, or Average temperature.
- High and low alarms for rapid detection of temperatures outside the limits.
- Hold function.
- Powered by PC USB or 5V power adaptor.
- LED for Status indication.
- Date and time display.
- Ability to store data on a MicroSD card.
- USB connectivity to monitor/analyze temperature on PC.

