

Designed to meet the complete spectrum of temperature measurement requirements in IVF clinics and research laboratories

METRUM 2

Dual Channel Digital Thermometer

Precision embryology needs precision tools

Discover the future of precise temperature measurement with the Metrum 2 Dual Channel Digital Thermometer.

This advanced device combines cutting-edge technology with an array of features to meet various applications' diverse temperature monitoring needs.

Whether you're in an IVF Clinic, laboratory, medical facility, research environment, manufacturing, or process control the Metrum 2 Thermometer is the ultimate solution for accurate and efficient temperature analysis.

The thermometer has a dedicated sensing channel for T-Type Thermocouple sensors and another for PT100 RTD sensors. Each channel can hold up to 10 calibration configurations. This feature enables the use of 20 distinct temperature sensors with the thermometer.

This extensive range of choices ensures that you can easily find the optimal solution to meet your precise requirements.









Integrate up to 10 sensor probes per channel



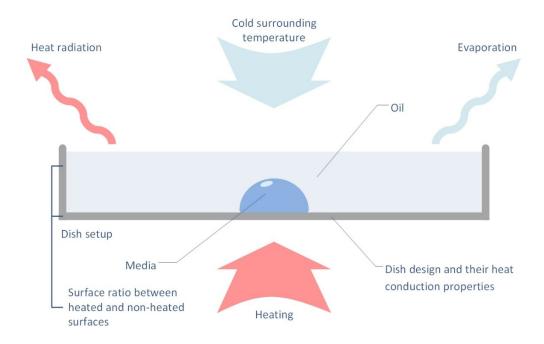
Desktop Software

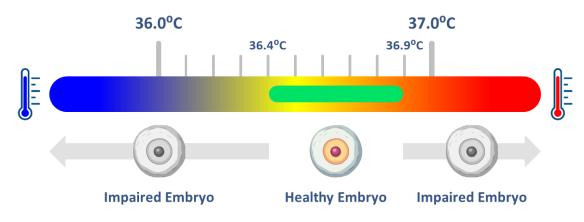
Real time data viewing on PC

(€ IEC/EN 61010 IEC/EN 61326

Accurate temperature measurements and precise temperature control in the IVF lab are essential for achieving optimal results

Controlling the temperature of media in Petri dishes during manipulation remains challenging despite the application of heated surfaces. Simply measuring the temperature of heated surfaces is inadequate, given that media temperatures are influenced by the interplay between both heated and non-heated surfaces, along with variables such as the temperature of heated and non-heated surfaces, their ratios, evaporation, heat radiation, heat transfer, dish design, and dish setup collectively contribute to the complexities affecting media temperatures.





- Negative effect on meiotic spindle stability.
- Reduced fertilization rates, delayed embryo development.

- Expression of stress response genes.
- Conformation changes in molecules and structures.

"Ideal" Temperature > 36.4°C and < 36.9°C

The temperature measurement of media in Petri dishes positioned on heated surfaces is additionally complicated by the specific method of temperature assessment. The characteristics of certain temperature probes frequently employed in laboratories can impact their appropriateness for the diverse temperature measurements needed in this context.

Metrum 2 Thermometer Features

- Dual-channel temperature measurement.
- Each sensing channel can be configured to operate 10 distinct types of T-Type thermocouples and PT100 RTD sensors.
- 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.
- Lasts up to 200 hours on a single charge.
- Powerful 3450 mAh rechargeable Lithium-ion battery.
- Ability to power via USB (Adaptor included).
- Adjustable auto power-off function.
- Battery life indicator.
- USB connectivity to monitor/analyze temperature on PC.



"Designed and engineered for accuracy and reliable results every time"

One device with multiple temperature sensor probes



ICSI Dish Sensor Probe with a thin needle probe



Single Well Dish Sensor Probe with a thin needle probe



with a thin needle probe



Five Well Dish Sensor Probe ICSI Dish Sensor Probe with thin flexible probe



Single Well Dish Sensor Probe with thin flexible probe



Five Well Dish Sensor Probe with thin flexible probe









Needle Sensor Probe

Needle Probe Stand

Thin Needle Sensor Probe

Thin Flexible Sensor Probe

Probe Stand for thin needle sensor, thin flexible sensor, and ultra-fine flexible



Surface Sensor Probe



Flexible Surface Sensor Probe



Cryo Tank Sensor Probe



Fridge/ Freezer Sensor Probe



Blood Cassette Sensor Probe

Designed to meet the complete spectrum of temperature measurement requirements in IVF clinics and research laboratories

Temperature Measurement and Calibration with Petri Dish Sensor Probes

Measuring the temperature of media and oil in a Petri dish with an integrated thin needle sensor probe

These dishes are specifically designed to emulate laboratory operational conditions, offering the capability to be filled with culture media and oil. This replication mirrors real scenarios for temperature measurements. By measuring the temperature at the center of the dish, adjustments to the heating system set point can be made to achieve the desired temperature at the central point under authentic operational conditions. The Petri dish probes are further categorized based on the type of measurement they can be utilized for.

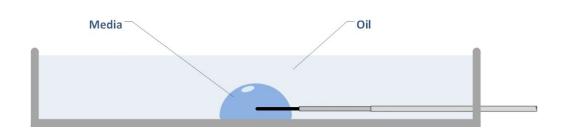
By eliminating manual positioning of measuring equipment, these probes efficiently mitigate potential complications and interferences, substantially reducing errors and inconsistencies inherent in the measuring process.

• The needle tip of the sensor probe is positioned 1mm above the bottom surface of the Petri dish without making contact with the bottom of the Petri dish.



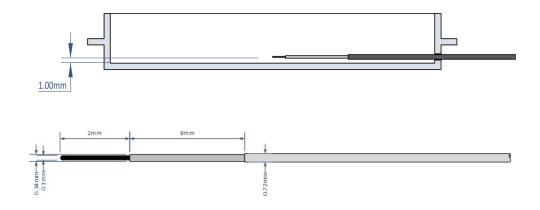
ITNDL-M-MPN (M: Manufacture name, MPN: Manufacturer part number)

- Allows direct measurement of the culture media in a Petri dish with oil.
- The sensor probes are securely adhered to the dish using clear, medical-grade glue.
- Seamless integration of sensor probes with Petri dishes from any manufacturer.
- Ultra-fast response time for quick readings.
- For accurate, easy, and consistent temperature measurements of media and oil during operations inside benchtop incubators.
- The thin flexible sensor probe wire enables the dish probe to conduct measurements within benchtop incubators with the incubator compartment lid closed.
- Effortless cleaning with the optional Ultrasonic cleaner.



ITNDL Petri Dish Sensor Probe Specification

ITNDL-M-MPN	Petri dish with integrated thin needle sensor prob					
Sensor type	T-Type thermocouple					
Dimensions	Sensor tip \emptyset = 0.1mm; sensor tip length = 2mm; cable length = 1500mm; cable thickness = 0.72mm					
Measuring range	-50°C to +200°C					
Accuracy	±0.03°C in the physiological range					
Response time	0.13s to 0.25s					



Labware Manufacturers



• BIRR • Nunc • Oosafe • VitroLife • Astec • Falcon

"Integrated petri dish probes guarantee precise and stable temperature control under actual laboratory conditions....."

Temperature Measurement and Calibration with Petri Dish Sensor Probes

Measuring the bottom surface temperature of a Petri dish containing oil with an integrated thin flexible sensor probe

These dishes are specifically designed to emulate laboratory operational conditions, offering the capability to be filled with oil. This replication mirrors real scenarios for temperature measurements. By measuring the temperature at the center bottom surface of the dish, adjustments to the heating system set point can be made to achieve the desired temperature at the central point under authentic operational conditions.

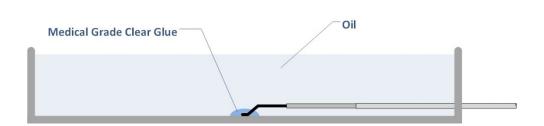
By eliminating manual positioning of measuring equipment, these probes efficiently mitigate potential complications and interferences, substantially reducing errors and inconsistencies inherent in the measuring process.

• The sensor probe's tip is securely bonded to the bottom surface using clear, medical-grade glue, enabling precise temperature measurements directly from the center of the Petri dish's bottom surface.



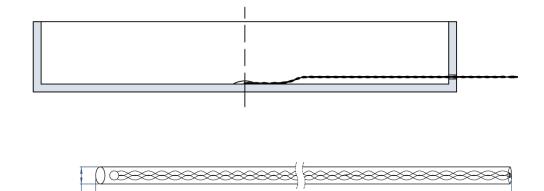
IUFT-M-MPN (M: Manufacture name, MPN: Manufacturer part number)

- The thin flexible sensor probe wire enables the dish probe to conduct measurements within benchtop incubators with the incubator compartment lid closed.
- The temperature setpoint for the incubator compartment can be adjusted to achieve the desired temperature at the center within the oil-filled dish, replicating real operational conditions.
- Ideal for heat mapping on heated glass stages and heated worksurfaces.
- Seamless integration of sensor probes with Petri dishes from any manufacturer.
- Ultra-fast response time for quick readings.
- Effortless cleaning with the optional Ultrasonic cleaner.



IUFT Petri Dish Sensor Probe Specification

IUFT-M-MPN	Petri dish with integrated thin flexible sensor probe					
Sensor type	T-Type thermocouple					
Dimensions	Sensor tip \emptyset = 0.635mm; cable length = 910mm; cable thickness = 0.635mm					
Measuring range	-100°C to +150°C					
Accuracy	±0.03°C in the physiological range					
Response time	0.5s to 1s					



Labware Manufacturers



• BIRR • Nunc • Oosafe • VitroLife • Astec • Falcon

Ø0.635mm

"Integrated petri dish probes guarantee precise and stable temperature control under actual laboratory conditions....."

Temperature Measurement and Calibration with Thin Flexible Sensor Probe

Measuring temperature in incubators (time-lapse and benchtop)

Accurate temperature measurement within incubators, including timelapse models, is essential for optimal operational conditions. The probe must exhibit flexibility and thinness to navigate small openings while allowing for the closure of benchtop incubator lids, ensuring uninterrupted incubator functionality.

Time-Lapse Incubators

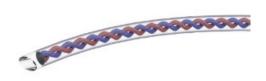
The thin flexible sensor probe wire and \emptyset 0.635mm sensor tip allow temperature measurements in time-lapse incubators such as the VitroLife Embryoscope.

Benchtop Incubators

The thin flexible sensor probe wire enables temperature measurements within benchtop incubators with the incubator compartment lid closed.

Measure the surface temperature of both the bottom and top surfaces of the benchtop incubator chamber.

- UFT is a high-accuracy 21-gauge sensor insulated with Teflon.
- Ultra-fast response time for quick readings.



UFT (Ø 0.635mm)





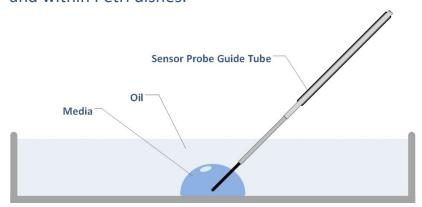
- Planer
 VitroLife
- Cook Medical
 Astec • Esco
- K-Systems

Temperature Measurement and Calibration with Thin Flexible Sensor Probe

Measuring liquid temperature in Petri dishes and test tubes

Ensuring the correct temperature inside culture media immersed in oil is crucial for IVF outcomes. Consistency in sensor probe placement also plays a critical role, maintaining a uniform approach is essential. The probe holder plays a vital role by securing the probe placement, and ensuring it is immersed in the media droplet.

- The thin flexible sensor probe with the probe guide tube and probe holder, provides flexibility to direct the sensor probe towards the media droplet in oil manually in Petri dishes.
- The probe is suitable for measuring liquid temperatures in Petri dishes placed on heated glass stages, work surfaces, and directly within test tubes.
- Ideal for heat mapping on heated glass stages, heated worksurfaces, and within Petri dishes.



- Sensor probe holder with guide tube is designed to secure the probe in position.
- UFT is a high-accuracy 21-gauge sensor insulated with Teflon.
- Ultra-fast response time for quick readings.

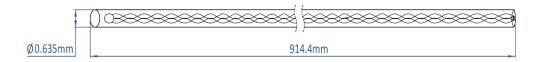


Probe Stand PSTD

Facilitating consistent probe placement is a crucial factor that affects success rates in IVF

UFT Thin Flexible Sensor Probe Specification

UFT	Thin flexible sensor probe					
Sensor type	T-Type thermocouple					
Dimensions	Sensor tip \emptyset = 0.635mm; cable length = 910mm; cable thickness = 0.635mm					
Measuring range	-100°C to +150°C					
Accuracy	±0.03°C in the physiological range					
Response time	0.5s to 1s					





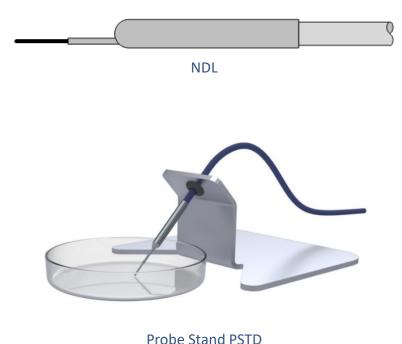


Temperature Measurement and Calibration with Needle Sensor Probe

Measuring liquid temperature in Petri dishes and test tubes

Ensuring the correct temperature inside culture media immersed in oil is crucial for IVF outcomes. Consistency in sensor probe placement also plays a critical role, maintaining a uniform approach is essential. The probe holder plays a vital role by securing the probe placement, and ensuring it is immersed in the media droplet.

- The probe with the probe holder, provides flexibility to direct the sensor probe towards the media droplet in oil manually in Petri dishes.
- The probe is suitable for measuring liquid temperatures in Petri dishes placed on heated glass stages, work surfaces, and directly in test tubes.
- Ideal for heat mapping on heated glass stages, heated worksurfaces, and within Petri dishes.
- Stainless steel shaft and 29-gauge 10 mm long needle tip.
- Sensor probe holder designed to secure the probe in position.
- Ultra-fast response time for quick readings.

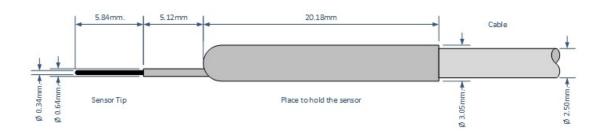


Facilitating consistent probe placement is a crucial factor that affects success rates in IVF



NDL Needle Sensor Probe Specification

NDL	Needle sensor probe					
Sensor type	T-Type thermocouple					
Dimensions	Sensor tip \emptyset = 0.34mm; sensor tip length = 12mm; cable length = 1500mm; cable thickness = 2.5mm					
Measuring range	-50°C to +200°C					
Accuracy	±0.03°C in the physiological range					
Response time	0.13s to 0.25s					





"Temperature measurements and temperature control during the IVF process are crucial for outcomes"

Dr. Lars Johansson - International ART Consultant

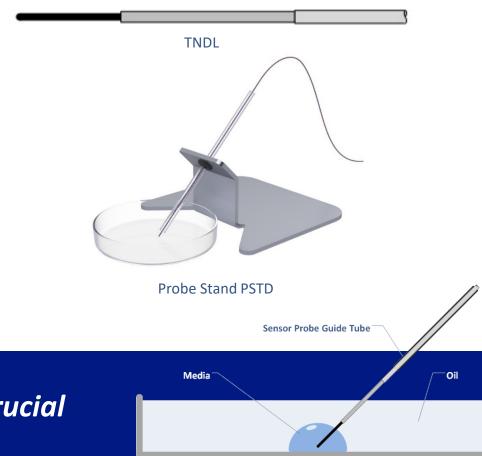
Temperature Measurement and Calibration with Thin Needle Sensor Probe

Measuring liquid temperature in Petri dishes and test tubes

Ensuring the correct temperature inside culture media immersed in oil is crucial for IVF outcomes. Consistency in sensor probe placement also plays a critical role, maintaining a uniform approach is essential. The probe holder and guide tube play a vital role by securing probe placement, and ensuring it is immersed in the media droplet.

- The thin needle sensor probe with the probe guide tube and probe holder, provides flexibility to direct the sensor probe towards the media droplet in oil manually in Petri dishes.
- The probe is suitable for measuring liquid temperatures in Petri dishes placed on heated glass stages, work surfaces, and directly within test tubes.
- Ideal for heat mapping on heated glass stages, heated worksurfaces, and within Petri dishes.
- Sensor probe holder with guide tube is designed to secure the probe in position.

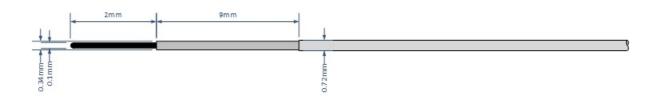
• Ultra-fast response time for quick readings.



Facilitating consistent probe placement is a crucial factor that affects success rates in IVF

TNDL Thin Needle Sensor Probe Specification

TNDL	Thin needle sensor probe					
Sensor type	T-Type thermocouple					
Dimensions	Sensor tip \emptyset = 0.1mm; sensor tip length = 2mm; cable length = 1500mm; cable thickness = 0.72mm					
Measuring range	-50°C to +200°C					
Accuracy	±0.03°C in the physiological range					
Response time	0.13s to 0.25s					



Temperature Measurement and Calibration with Surface Sensor Probe

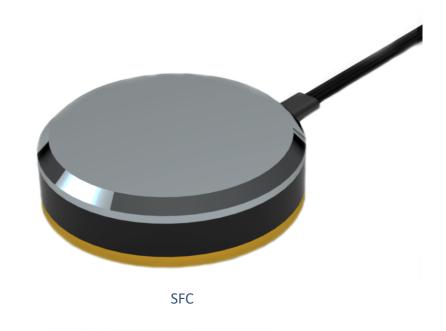
Measuring surface temperature in heated worksurfaces and benchtop incubator compartment bottom surface

Accurate surface temperature measurement requires a probe with the right size to cover Ø32mm area and sufficient weight to prevent movement. Additionally, it should exhibit excellent thermal conductivity to ensure a quick and responsive temperature reading. The size, weight, and thermal conductivity interplay is critical for precise and efficient surface temperature measurements.

- The probe is well-suited for measuring surface temperatures in both benchtop incubators and on heated surfaces, excluding glass stages.
- Ensuring full contact and preventing unintended movement during measurements, the sensor probe is equipped with sufficient weight.
- Optimal thermal contact is facilitated by the thin copper bottom of the sensor probe.
- A flat extension cable enables the complete closure of the benchtop incubator compartment lid.
- Ideal for heat mapping on heated worksurfaces.

Metrum 2 MSA (Multi Sensor Adaptor):

Simultaneously monitoring of up to 10 heated surface temperatures is achievable by using the Metrum 2 thermometer in combination with the Metrum 2 MSA.



SFC Surface Sensor Probe Specification

SFC	Surface sensor probe					
Sensor type	3 wire PT100 RTD					
Dimensions	Sensor disk \emptyset = 32mm; disk height = 8.5mm; cable length = 1000mm; cable thickness = 0.8mm					
Measuring range	-50°C to +200°C					
Accuracy	±0.03°C in the physiological range					
Response time	< 45s					



Temperature Measurement and Calibration with Flexible Surface Sensor Probe

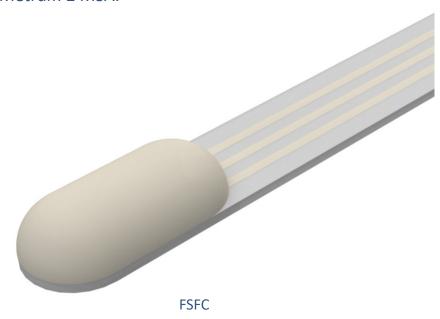
Measuring surface temperature in heated surfaces and benchtop incubator compartments (top & bottom)

For specific applications demanding versatility and agility, consider a sensor equipped with a flat tip measuring 3mm in width and 1.35mm in thickness. This flexible probe offers rapid response capabilities and low thermal mass, enabling swift readings and maneuverability to access confined or small areas. Such features ensure optimal performance for scenarios where adaptability and quick assessment are paramount

- The probe is well-suited for measuring surface temperatures in benchtop incubators, on heated surfaces, and in glass stages.
- A flat cable enables the complete closure of the benchtop incubator compartment lid.
- Ideal for heat mapping on benchtop incubators, glass stages, and heated worksurfaces
- Ultra-fast response time for quick readings.

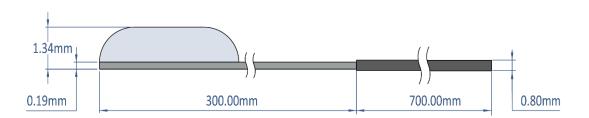
Metrum 2 MSA (Multi Sensor Adaptor):

Simultaneously monitoring of up to 10 heated surface temperatures is achievable by using the Metrum 2 thermometer in combination with the Metrum 2 MSA.



FSFC Surface Sensor Probe Specification

FSFC	Flexible surface sensor probe					
Sensor type	3 wire PT100 RTD					
Dimensions	Sensor width = 3mm; sensor thickness = 1.35mm; cable length = 1000mm; cable thickness = 0.8mm					
Measuring range	-40°C to +200°C					
Accuracy	±0.03°C in the physiological range					
Response time	1s					



Temperature Measurement and Calibration with Cryogenic Sensor Probes

Measuring temperature in cryo tanks, fridges, and freezers

Cryo tanks with larger structures necessitate longer thin probes, whereas fridge and freezer probes can be shorter. The probe cabling for both scenarios has been meticulously designed to withstand extreme temperatures, ensuring reliable performance in diverse environments.

- Suitable for application in diverse cryogenic storage freezers, refrigeration systems, and cold storage setups.
- Reliable and precise measurement ensured by a high-accuracy PT100 RTD sensor.
- Designed to operate in extreme cryogenic environments.

Metrum 2 MSA (Multi Sensor Adaptor)

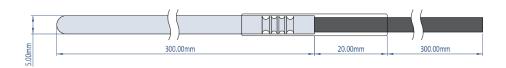
Simultaneously monitoring up to 10 cryo tanks, fridges, and freezer temperatures is achievable by using the Metrum 2 thermometer in combination with the Metrum 2 MSA.

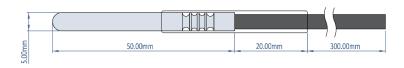


CTP and FFP Cryogenic Sensor Probe Specifications

СТР	Cryogenic sensor probe for cryo tanks				
Sensor type	3 wire PT100 RTD				
Dimensions Sensor \emptyset = 5mm; sensor length = 300mm; cable length = 3m; cable thickness = 3.5mm					
Measuring range	-200°C to +200°C				
Accuracy	±0.1°C @ 0°C				
Response time	<60s				

FFP	Cryogenic sensor probe for fridges and freezers					
Sensor type	3 wire PT100 RTD					
Dimensions	Sensor \emptyset = 5mm; sensor length = 50mm; cable length = 3m; cable thickness = 3.5mm					
Measuring range	-200°C to +200°C					
Accuracy	±0.1°C @ 0°C					
Response time	<60s					





Temperature Measurement and Calibration with Blood Cassette Sensor Probe

Measuring temperature in blood cassettes

In cryopreservation scenarios where cryo freezers are employed for controlled-rate freezing of blood bags within cassettes, the primary sensor predominantly measures the overall freezer temperature.

It is essential to note, however, that the temperature of the blood bags may deviate from that of the freezer. This discrepancy emphasizes the critical need for a specialized sensor to monitor the blood bag's specific temperature conditions.

- Thin flexible patch sensor that can be wedged in between the blood bag and the cassette.
- 0.05°C, High accuracy between -10°C to 10 °C PT100 RTD sensor.
- Designed to operate in extreme cryogenic environments.
- A flexible lead wire that enables the freezer to close securely, preventing any potential leaks.
- Sterilization with Isopropyl alcohol (IPA).
- Metrum 2 MSA (Multi Sensor Adaptor)

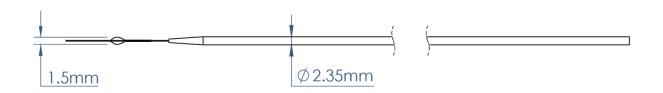
Simultaneously monitoring up to 10 blood cassette temperatures is achievable by using the Metrum 2 thermometer in combination with the Metrum 2 MSA.



BCS Blood Cassette Sensor Probe Specification

BCS	Blood Cassette Sensor Probe				
Sensor type	3 wire PT100 RTD				
Dimensions	Sensor element = 2.1mm x 1.8mm x 1.05mm; Sensor head (rounded square) = 30mm x 30mm x 0.13mm; Cable length = 750mm; Cable thickness = 2.35mm;				
Measuring range	180°C to 50°C				
Accuracy	±0.05°C between -10°C to 10 °C				
Response time	<30s				





Sensor Probe Application Matrix

		integrate	ed with ed sensor bes	Manual					
Sensor Probe Description	Part Number	Petri dish surface measurement (Inside & outside incubators)	Petri dish liquid measurement (Inside & outside incubators)	Liquid measurement (Outside incubators)	Liquid measurement (Inside incubators)	Surface measurement (Excluding Heated Glass stage)	Surface measurement (Incubator top, bottom, Heated surfaces)	Incubator/ Time lapse incubator measurement (1.1mm Ø opening)	Test tube measurement
Petri dish probe (Thin Needle sensor)	INDL-M-MPN		✓						
Petri dish probe (Thin flexible sensor)	IUFT-M-MPN	✓							
Thin flexible probe	UFT			✓	✓			✓	✓
Needle probe	NDL			✓					✓
Thin needle probe	TNDL			✓	✓				✓
Surface probe	SFC					✓			
Flexible Surface probe	FSFC					✓	✓		

Custom Temperature Sensor Probes

Customized Solutions

We offer custom sensor probes designed to meet your specific requirements.

Industry-Leading Performance

Our capabilities ensure that we can match or surpass the performance of sensor probes from other manufacturers in the industry.

Precision Engineering

Our expertise in design and engineering ensures the highest level of accuracy.



"I tested the Metrum 2 thermometer simultaneously with the digital thermometer from Cooper Surgical when I did calibration to my L126 IVF dual workstation from K-Systems with the engineer from Thailand. The results are compatible with both of them. Besides, it's much cheaper than K-Systems"

Myat Tha Zin
Chief Embryologist | Bahosi Fertility Center



Connect up to 10 x T-Type Thermocouple Sensors and PT100 RTD Sensors

RTD/ PT100 Probe Options T-Type Thermocouple Probe Options Surface Probe T0 Properation T1 Properation Probe T2 Properation T2 Properation T2 Properation T3 Properation T4 Properation T5 Properation

Limitless Potential

Connect up to 10 different types of Thermocouple sensors and 10 different types of RTD sensors.

Seamless Interchangeability

Effortlessly switch between various thermocouple sensors and RTD sensors, with calibration values conveniently stored on the device.



"Designed to meet the complete spectrum of temperature measurement requirements within IVF clinics and research laboratories"

Multi Sensor Adaptor Accessory for PT100 RTD Sensor Probes

Metrum 2 MSA (Multi Sensor Adaptor)

An intricately designed supplementary accessory tailored to enhance the functionality of the Metrum 2 Digital Thermometer, specifically catering to the unique demands of fertility clinics and research laboratories.

The Metrum 2 MSA (†) concurrently captures temperature from up to 10 sensor probes, encompassing surface sensor probes, cryo tank sensor probes, blood cassette sensor probes, and fridge/freezer sensor probes, either individually or in combination.

Through the establishment of a USB connection with the Metrum 2 Digital Thermometer, the Metrum 2 MSA seamlessly integrates into the system. At the same time, a distinct USB link connects to a PC, enabling real-time visualization of data.

Temperature readings are readily available on both the display of the Metrum 2 Digital Thermometer and through specialized PC software.

(†) Metrum 2 MSA can only be used in conjunction with the Metrum 2 Digital Thermometer.







Temperature accuracy ± 0.03°C all channels in the physiological range



10 Channels

10 x PT100, PT1000, and RTD temperature measurement channels



MicroSD Card

Data logging on MicroSD card



Desktop Software

Real-time data viewing on PC real-time



Metrum 2 MSA (Multi Sensor Adaptor)

Product Features



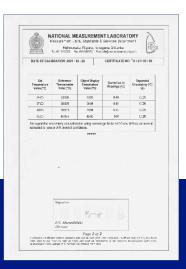
- Simultaneous measurement of up to 10 temperatures.
- Connect a combination of surface sensor probes, cryogenic sensor probes, and blood cassette sensor probes.
- Any type of PT100 RTD with connectors that adhere to industry standards can be used with the Metrum 2 MSA.
- Interface to Metrum 2 Thermometer 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.



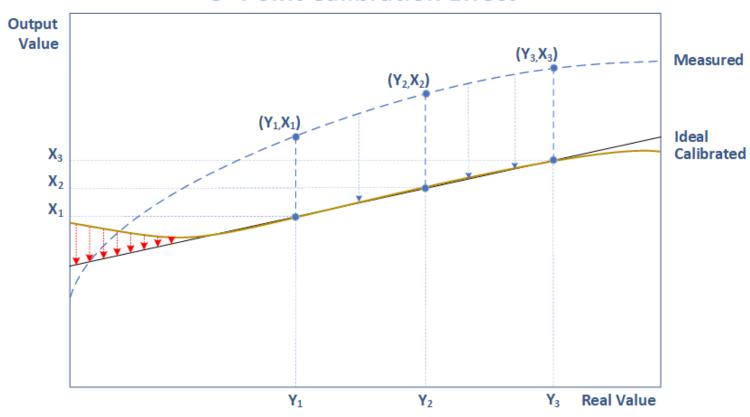
Calibration

- Inbuilt calibration function eliminates the need to add correction factors during readings.
- Unique calibration algorithm eliminates fluctuations.
- 3 Point calibration (32°C, 37°C, 40°C) enhances accuracy.
- Traceable calibration certificate included for each sensor probe.





3- Point Calibration Effect



"We are using Metrum 2 series devices easily and fondly for service purposes. It really makes our job a lot easier"

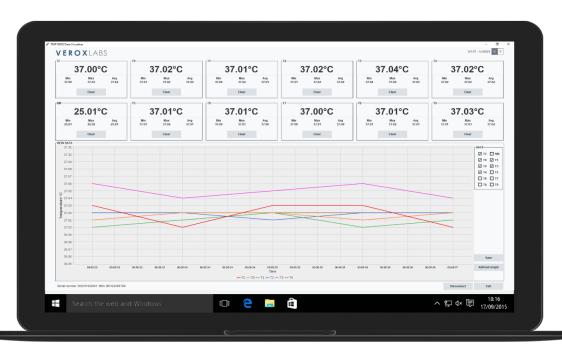
Sumeyra Kozak
International Relations Manager | TEKSERVIS LTD



PC Software

- Real-time temperature analysis on PC via USB.
- In-depth analysis of data can be performed by zooming in on critical points.
- Able to export graphs from the PC software.
- Able to select channels to view temperature data.
- Data can be saved in CSV or Excel format for later use.





METRUM 2 Dual Channel Digital Thermometer Specification

MET2

Operating temperature	5°C to 40°C			
Display type	Custom LCD			
Display range	-573.32°C to +537.77°C			
Display resolution	0.01°C			
Temperature resolution	0.01°C			
Connectivity	USB			
Automatic power off	Default 5min / adjustable			
Battery type	1 x 3450 mAh Lithium-ion battery			
Battery life	Approximately 200 hours on full charge (†)			
Power supply	5V USB (PC/adaptor)			
Dimension (L x W x H)	203mm x 66mm x 54 mm			
Net weight	200g			
Standard warranty	2 Years			
(†) Tested in laboratory conditions				



Metrum 2 MSA Product Specification

MET2-MSA

Operating temperature	5°C to 40°C
Temperature resolution	0.01°C
Power On/ Off	Push button switch
Connectivity	USB
Power supply	5V USB (PC/adaptor)
Dimension (L x W x H)	180mm x 140mm x 71 mm
Net weight	565g
Standard warranty	2 Years





"They have very interesting products, one of which we already ordered and used for some time in the service department with very good results"

Cornelia Craciun Product Manager | ELTA 90 Medical



Hard Carry Case









Metrum 2 Hard Carry Case

Metrum 2 and Metrum 2 MSA Hard Carry Case

Ultrasonic Cleaner for Petri Dish Probes



Specification

Ultrasonic frequency	43Hz
Tank material	Stainless steel SUS304
Tank capacity	600ml
Times	5 cycles: 180s - 280s - 380s - 480s - 90s
Power supply	AC100-120V, 60Hz/ AC200-240V, 50Hz
Ultrasonic power	35W
Tank size	150mm x 90mm x 50mm (L x W x H)
Overall size	206mm x 145mm x 133mm (L x W x H)
·	<u> </u>

UKC

Ordering Information

Devices

Order Code	Image	Description
MET2	1	METRUM 2, Dual Channel Digital Thermometer
MET2-MSA	•	Metrum 2 MSA (Multi Sensor Adaptor)

T-Type Thermocouple Sensor Probes

Order Code	Image	Description
NDL		Needle sensor probe with stand
TNDL	18	Thin needle sensor probe with stand
UFT		Thin flexible sensor probe with stand
ITNDL-M-MPN (†)	000	Dish probe with Integrated thin needle sensor probe
IUFT-M-MPN (†)	0 80	Dish probe with Integrated thin flexible sensor probe

- (†) For dish sensor probes,
 - M Labware manufacturer
 - MPN Manufacturer Part Number of the Dish
- Contact us to integrate sensor probes into other labware manufacturers.

PT100 RTD Sensor Probes

Order Code	Image	Description
SFC		Surface sensor probe
FSFC		Flexible surface sensor probe
СТР	/	Cryogenic sensor probe for Cryo Tanks
FFP	/	Cryogenic sensor probe for fridges and freezers with installation kit
BCS	-	Blood cassette sensor probe

Labware Manufacturers

Order Code	Description
В	BIRR
V	VitroLife
0	Oosafe
N	Nunc
A	Astec
F	Falcon

Ordering Information

Accessories

Order Code	Description	
PSTD	Probe stand for needle/ flexible sensor probes	
FFK	Sensor probe installation kit for fridges and freezers	
UCK	Ultrasonic cleaner	
CC	Calibration certificates	
MSC	MicroSD card	
MPA	5V DC power adapter	
MUC	Micro USB cable	
PCS	PC Software	
CCC	Card board carry case	
HCS	Hard carry case small (Metrum 2 thermometer)	
HCL	Hard carry case large (Metrum 2 thermometer with Metrum 2 MSA)	

In keeping with VeroxLabs policy for continual product development and improvement, we reserve the right to amend

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