

# SRI SIVA SCIENTIFIC TECHNOLOGIES



**UV Cabinet**



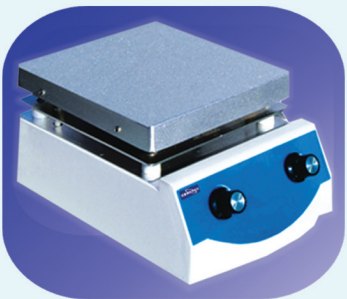
**Multifunctional Ultrasonic Cleaner**



**Ultrasonic Cleaner**



**Heting Mantles**



**Magnetic Strieers**



**Digital Magnetic Stirrer**



**Water Distillation Unit**



**2 - 8 Degree Refrigerator**

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**Centrifuge**



**Vaccum Pump**



**Hot Air Oven**



**Vaccum Oven & Incubator**



**PH, Cond/TDS Meters**



**Vertex Mixer**



**Surgical Bath**



**Water Bath**



**Auto Clave**



**Bottle Top Dispenser**



**Weighing Balance**



**Digital Thermo Hygrometer**



**Water Purification System Spares**



**Glass Ware**



**Pipette**

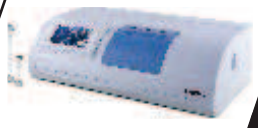


**Laboratory Plasticware**

**We Support Sales Service & AMS to All the Laboratories**

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*Reaching Worldwide*



- ✦ Spectrophotometer
- ✦ Ion Selective Electrode (ISEs)
- ✦ Ion with pH meter - 5 points
- ✦ pH Electrode
- ✦ pH meter - 3 point / 5 points
- ✦ Conductivity / TDS meter
- ✦ Multiparameter
- ✦ Dissolved Oxygen meter(DO)
- ✦ Digital Water Bath
- ✦ Refrigerated Circulating Bath
- ✦ Dry Bath Incubator
- ✦ Polarimeter
- ✦ Refractometer
- ✦ Viscometer
- ✦ Probe Sonicator
- ✦ Ultrasonic Cleaner (Sonicator)
- ✦ Digital Pipettes
- ✦ Ice Flaker
- ✦ Vortex Mixer
- ✦ Gradient Thermal Cycler - PCR
- ✦ Ceramic Hotplate Magnetic Stirrer

Part II

Scientific Instruments

## PRODUCT CATALOGUE

2021-22

# Catalogue 2021



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## SALIENT FEATURES

- PT100 temperature sensor.
- Both sides folding handle for easy movement
- Overheat protection and liquid level alarm function
- Stainless steel inner tank, Waterlevel alarm function
- Fast cooling, low noise, low vibration, stable and reliable performance
- LCD, Microprocessor, High Precision, PID temperature control system
- Pump flow rate 6L/min. & Programmable temperature controller

- **Application** : It can be attached temperature maintenance in
  - Fermentation tank
  - Polarimeter
  - Electrophoresis System
  - Spectrophotometer
  - Refractometer
  - Chromatographic Column
  - Rotary Evaporator
  - Viscometer

## Refrigerated Circulating Bath

Refrigerated Circulating Bath is widely used in Petroleum, Chemical, Electronic Instrumentation, Physics, Chemistry, Bioengineering, Medical and health, Life sciences, Light industry food property testing and chemical analysis, research departments, universities, enterprise quality inspection and production departments.

HSN Code : 8419

SPECIFICATIONS	MODEL	RCB620	RCB1220
	Make	LABMAN	
	Temperature Range	-20°C to 100°C	
	Temperature Display resolution	± 0.01°C	
	Temperature Fluctuation	± 0.05°C	
	Temperature Control	Microprocessor PID	
	Display	LCD	
	Refrigeration	Air Cooled refrigeration through compressor	
	Refrigerant	R-134a	
	Pump circulation	Internal & External	
	Temperature sensor	PT100	
	Pump flow rate	6 L /min	
	Bath Tank capacity	6L	12L
Tank size (Lx Wx D )	180 x 290 x150 mm	240 x 250 x 200mm	
Bath Opening	180 x 140 mm	235 x 160 mm	
Bath depth	150 mm	200 mm	
Power Requirements	AC 220V / 50Hz		
Packing Dimensions LxWxH	530 x 450 x 800 mm	530 x 450 x 900 mm	
Weight	44 kg	50 kg	

★ Specifications are subject to change without notice.

Liquid to be used : 5°C and below Alcohol, 5°C ~85°C Pure Water, 85°C ~95°C - 15% Glycerin water solution



**DBI10**



**DBI18 & DBI20**

## Dry Bath Incubator

Dry Bath Incubator is a microprocessor controlled product using advanced thermoelectric technique, high precision of temperature control.

It can be widely used in samples cultivation, preservation and reaction DNA amplification, Pre-degeneration of electrophoresis, and solidification

### SALIENT FEATURES

- ◆ LCD (Liquid crystal display) & Touch type Keypad Operation.
- ◆ Built in Over Temperature Protector
- ◆ There are 5 groups of programs can be programmed Independent or combined
- ◆ Maximum upto 5 temperature point, temperature setting & continuous operation
- ◆ Microprocessor Controls
- ◆ Timing Function, 0~99hrs59minutes, range shows on the display screen shows.
- ◆ Brushless DC Motor Type with Long Serviceable Life

Model	Operation
DBI10	Heating
DBI18	Heating & Stirring
DBI20	Heating, Cooling & Stirring



## Dry Bath Incubator

HSN Code : 9032

Model	DBI10	DBI18	DBI20
Make	LABMAN		
Shaker Speed	-	200 - 1800rpm	200 - 1800rpm
Temperature Control range	R.T.+ 5°C to 100°C		0°C to 100°C (If ambient temp. < 20°C), 4°C to 100°C (If ambient temp. (RT < 25°C), 10°C to 100°C (If ambient temp. (RT < 30°C)
Cooling Time	NA		25min(from RT to RT-20°C)
Mixing Orbit	-	2mm	2mm
Timing Range	1min~99h59min		
Temp. Control Accuracy	≤ ±0.5°C		
Temperature Resolution	0.1°C		
Temp. Uniformity of Block	≤ ± 0.3°C		
Heating Time	≤15min ( 25°C up to 100°C)		
Display	LCD		
Program	Support 5 Multipoint Programmes		
Standard Block	35 x 2.0ml		
Power	150W	150W	200W
Power supply	AC 220V / 50Hz		
Dimension LxWxH (mm)	270 x 190 x 170		
Weight	2.5kg	7.5kg	8.5kg

R.T. = Room Temperature

### Standard Accessories

Main Instrument with Standard Block, Power Cord, Fuse & Instruction Manual

★ Specifications are subject to change without notice.



## Digital Pipettes - LMPP SERIES

LMPP20, 50, 100, 200, 1000

### SALIENT FEATURES

Digital Pipettes (LMPP series) is convenient of use and simplicity of Operation Ease of Calibration and maintenance, Availability for autoclave of part of the device. A hook, disassembly tool and consumable replacement parts.

- An ergonomic handle hook design for easy grip in the palm
- A Clever design for the tip eject button
- A Clear reading window
- Availability for Autoclave of the tip and the pusher, also detachable to facilitate cleaning and maintenance
- A tip cone made of durable chemical materials, with excellent chemical corrosion resistance

The DIGITAL PIPETTE is a continuously adjustable, General purpose pipette for sampling and dispensing accurate liquid volumes. It Operates on an air displacement principle and uses detachable, disposable tips. The adjusted delivery volume is displayed digitally on a numeric readout window on the handle.

HSN Code : 9027

SPECIFICATIONS	Model No	Volume Range	Increment	Test Volume	Accuracy	Precision
	LMPP20	2-20µl	0.5µl	20µl	±0.90%	±0.40%
				10µl	±1.20%	±1.00%
				2µl	±3.00%	±2.00%
	LMPP50	5-50µl	0.5µl	50µl	±0.60%	±0.30%
				25µl	±0.90%	±0.60%
				5µl	±2.00%	±2.00%
	LMPP100	10-100µl	1µl	100µl	±0.80%	±0.15%
				50µl	±1.00%	±0.40%
				10µl	±3.00%	±1.50%
LMPP200	20-200µl	1µl	200µl	±0.60%	±0.15%	
			100µl	±0.80%	±0.30%	
			20µl	±3.00%	±1.00%	
LMPP1000	100-1000µl	5µl	1000µl	±0.60%	±0.20%	
			500µl	±0.70%	±0.25%	
			100µl	±1.50%	±0.70%	

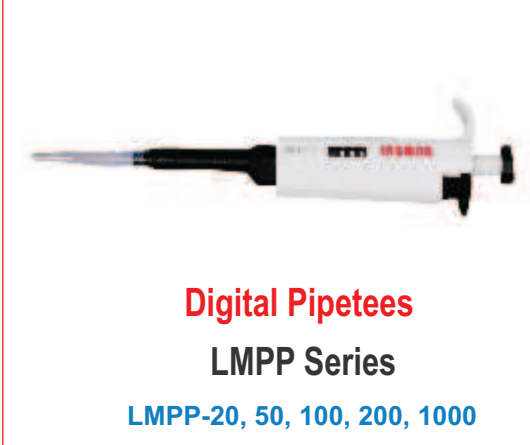
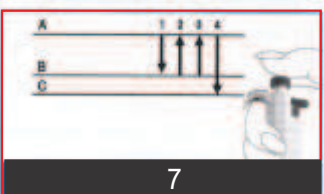
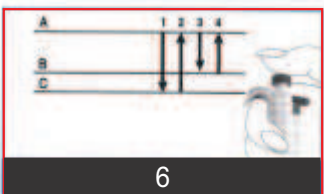
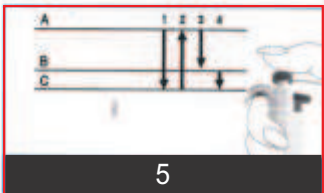
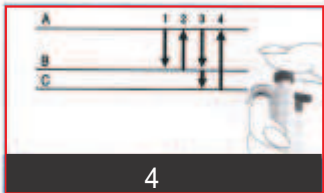
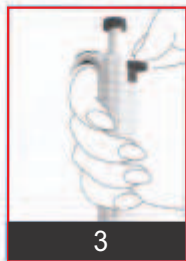
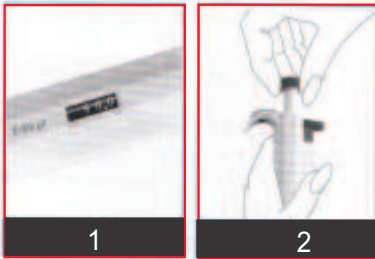
\* NABL Calibration available on request

★ Specifications are subject to change without notice.

# Catalogue 2021-22



## Digital Pipettes - LMPP SERIES



### APPLICATION :

Digital Pipettes is a laboratory tool commonly used in chemistry, biology and medicine to transport a measured volume of liquid often as a media dispenser.

Sodium Combination Electrode



### Sodium

**Application :**

Steam condensate, meats, fish, dairy, fruit juices, fermentation, body fluids, ground/sea water, soils,

Part No	ISE23
Ion Type	Sodium
Symbol	Na <sup>+</sup>
Make	LABMAN
Refillable or Gel (Sealed)	Refillable
Concentration range	10 <sup>-1</sup> M to 10 <sup>-5</sup> M
Limits (ppm)	2300 ppm to 0.2 ppm
pH Range	above 10
Temperature Range	5 to 60 °C
Electrode Resistance	less than 1 megohms
Reproducibility	± 2%
Membrane	Solid State
Material	Glass Electrode
Slope	+54 to +60 mV
Cable Length	1 meter
Connector	BNC
Main Interferences	Li <sup>+</sup> , K <sup>+</sup>
Dimension	Φ 12 x 165 mm
Accessories	Sodium Standard Solution & ISAB (500ml), IFS (30ml)

HSN Code : 9027

Bromide Combination Electrode



### Bromide

**Application :**

Biological fluids, soil, plants roots, effluents,

Part No	ISE80
Ion Type	Bromide
Symbol	Br <sup>-</sup>
Make	LABMAN
Refillable or Gel (Sealed)	Refillable
Concentration range	10 <sup>-1</sup> M to 5 x 10 <sup>-6</sup> M
Limits (ppm)	7990 ppm to 0.4 ppm
pH Range	2 to 12 pH
Temperature Range	5 to 60 °C
Electrode Resistance	less than 1 megohms
Reproducibility	± 2%
Membrane	Solid State
Material	Plastic
Slope	-54 to -59 mV
Cable Length	1 meter
Connector	BNC
Main Interferences	I <sup>-</sup> , S <sup>2-</sup> , CN <sup>-</sup>
Dimension	Φ 12 x 165 mm
Accessories	Bromide Standard Solution & ISAB (500ml), IFS (30ml)

## Ammonia Combination Electrode



**Ammonia**

**Application :**

Sewage effluent, boiler water, fish tanks, Stack gases, sea water, biological samples, fertilizers,

Part No	ISE17
Ion Type	Ammonia
Symbol	NH <sub>3</sub> <sup>-</sup>
Make	LABMAN
Refillable or Gel (Sealed)	Refillable
Concentration range	10 <sup>-1</sup> M to 10 <sup>-5</sup> M
Limits (ppm)	1700 ppm to 0.17 ppm
pH Range	above 11
Temperature Range	5 to 45 °C
Electrode Resistance	less than 1000 megohms
Reproducibility	± 2%
Membrane	Gas Sensing
Material	Plastic
Slope	-54 to -60 mV
Cable Length	Coaxial 1 meter
Connector	BNC
Main Interferences	Hydrazine, Amines
Dimension	Φ 12 x 165 mm
Accessories	Ammonia Standard Solution & ISAB(500ml), IFS(30ml)

HSN Code : 9027

## Iodide Combination Electrode



**Iodide**

**Application :**

Milk, Feeds, Plants and Pharmaceuticals

Part No	ISE127
Ion Type	Iodide
Symbol	I <sup>-</sup>
Make	LABMAN
Refillable or Gel (Sealed)	Refillable
Concentration range	10 <sup>-1</sup> M to 10 <sup>-5</sup> M
Limits (ppm)	12700 ppm to 1.27 ppm
pH Range	2 - 12 pH
Temperature Range	5 - 60 °C
Electrode Resistance	less than 1000 megohms
Reproducibility	± 2%
Membrane	Solid State
Material	Plastic
Slope	-54 to -60 mV
Cable Length	1 meter
Connector	BNC
Main Interferences	Hg <sup>++</sup> , CN <sup>-</sup>
Dimension	Φ 12 x 165 mm
Accessories	Iodide Standard Solution & ISAB ( 500ml ), IFS (30ml)

Chloride Combination Electrode



**Chloride**

**Application :**

Water / waste water, soil, diary meals, tomato, vegetable products

Part No	ISE35
Ion Type	Chloride
Symbol	Cl <sup>-</sup>
Make	LABMAN
Refillable or Gel (Sealed)	Refillable
Concentration range	10 <sup>-1</sup> M to 10 <sup>-4</sup> M
Limits (ppm)	3550 ppm to 3.5 ppm
pH Range	2 to 12pH
Temperature Range	5 to 60 °C
Electrode Resistance	less than 1 megohms
Reproducibility	± 2%
Membrane	Solid State
Material	Plastic
Slope	-54 to -60 mV
Cable Length	1 meter
Connector	BNC
Main Interferences	I <sup>-</sup> , Br <sup>-</sup> , CN <sup>-</sup> , S <sup>2-</sup>
Dimension	Φ 12 x 165 mm
Accessories	Chloride Standard Solution & ISAB(500m ), IFS (30ml)

HSN Code : 9027

Calcium Combination Electrode



**Calcium**

**Application :**

Foods beverages, soil, pharmaceuticals explosives, fertilizers, plants.

Part No	ISE40
Ion Type	Calcium
Symbol	Ca <sup>++</sup>
Make	LABMAN
Refillable or Gel (Sealed)	Refillable
Concentration range	10 <sup>-1</sup> M to 10 <sup>-5</sup> M
Limits (ppm)	4000 ppm to 0.4 ppm
pH Range	2.5 to 11 pH
Temperature Range	5 to 60 °C
Electrode Resistance	1 to 4 megohms
Reproducibility	± 4%
Membrane	PVC
Material	Plastic
Slope	+25 to +30 mV
Cable Length	1 meter
Connector	BNC
Main Interferences	Fe <sup>++</sup> , Pb <sup>++</sup> , Zn <sup>++</sup> , Mn <sup>++</sup>
Dimension	Φ 12 x 165 mm
Accessories	Calcium Standard Solution & ISAB (500ml),IFS (30ml)

Fluoride Combination Electrode



Use Plastic Containers only for analysis

### Fluoride

**Application :**

Drinking Water, Wastewater and natural waters, stack gases, sea water, minerals, soils, foods, biological, fluids, toothpaste.

Part No	ISE19
Ion Type	Fluoride
Symbol	F <sup>-</sup>
Make	LABMAN
Refillable or Gel (Sealed)	Refillable
Concentration range	10 <sup>-1</sup> M to 10 <sup>-5</sup> M
Limits (ppm)	1900 ppm to 0.2 ppm
pH Range	5 to 7 pH
Temperature Range	5 to 60 °C
Electrode Resistance	less than 1000 megohms
Reproducibility	± 2%
Membrane	Solid State
Material	Plastic
Slope	-54 to -60 mV
Cable Length	1 meter
Connector	BNC
Main Interferences	OH <sup>-</sup>
Dimension	Φ 12 x 165 mm
Accessories	Fluoride Standard Solution & TISAB(500ml), IFS(30ml)

HSN Code : 9027

Nitrate Combination Electrode



### Nitrate

**Application :**

Pollution testing, foods, pharmaceuticals explosives, fertilizers, plants, meats, pickling baths

Part No.	ISE62
Ion Type	Nitrate
Symbol	NO <sub>3</sub> <sup>-</sup>
Make	LABMAN
Refillable or Gel (Sealed)	Refillable
Concentration range	10 <sup>-1</sup> M to 10 <sup>-4</sup> M
Limits (ppm)	6200 ppm to 6.2 ppm
pH Range	2.5 to 11 pH
Temperature Range	5 to 60 °C
Electrode Resistance	1 to 4 megohms
Reproducibility	± 4%
Membrane	PVC
Material	Plastic
Slope	-54 to -60 mV
Cable Length	1 meter
Connector	BNC
Main Interferences	ClO <sub>4</sub> <sup>-</sup> , I <sup>-</sup> , BF <sub>4</sub> <sup>-</sup>
Dimension	Φ 12 x 165 mm
Accessories	Nitrate Standard Solution & ISAB ( 500ml ), IFS (30ml)

HSN Code : 9027

Silver Combination Electrode



**Silver**

**Application :**

Sewage. effluent, soils, sediments, plating baths, pulping, liquors, photographic fixing solution

Part No	ISE107
Ion Type	Silver
Symbol	Ag <sup>+</sup>
Make	LABMAN
Refillable or Gel (Sealed)	Refillable
Concentration range	10 <sup>-1</sup> M to 10 <sup>-5</sup> M
Limits (ppm)	10790 ppm to 1.0 ppm
pH Range	2 to 12pH
Temperature Range	5 to 60°C
Electrode Resistance	less than 1 megohms
Reproducibility	±2%
Membrane	Solid State
Material	Plastic
Slope	+54 to +60 mV
Cable Length	1 meter
Connector	BNC
Main Interferences	S <sup>-</sup> , Hg <sup>++</sup>
Dimension	Φ12 x 165 mm
Accessories	Silver Standard Solution & ISAB (500ml), IFS(30ml)

HSN Code : 9027

Sulfide Combination Electrode



**Sulfide**

**Application :**

Sewage. effluent, soils, sediments, plating baths, pulping, liquors, photographic fixing solution

Part No	ISE32
Ion Type	Sulfide
Symbol	S <sup>-</sup>
Make	LABMAN
Refillable or Gel (Sealed)	Refillable
Concentration range	10 <sup>-1</sup> M to 10 <sup>-5</sup> M
Limits (ppm)	3200 ppm to 0.32 ppm
pH Range	2 to 12 pH
Temperature Range	5 to 60 °C
Electrode Resistance	less than 1 megohms
Reproducibility	± 4%
Membrane	Solid State
Material	Plastic
Slope	-25 to -30 mV
Cable Length	1 meter
Connector	BNC
Main Interferences	Ag <sup>+</sup> Hg <sup>++</sup>
Dimension	Φ 12 x 165 mm
Accessories	Sulfide Standard Solution & ISAB (500ml), IFS (30ml)

★ Specifications are subject to change without notice.

LMVM-20



### *Salient Features*

- ✦ Touch and continuous operations
- ✦ Wide speed range of 0-2500rpm, stepless speed regulation
- ✦ Used for various mixing applications.
- ✦ Specially designed vacuum suction feet hold to the work
- ✦ Supplied with Standard Head

## Vortex Mixer

The Vortex mixer widely used in life science, physical and chemical analysis fields, Analytical & Microbiology laboratories to suspend cell & Mixing reagent to mix sample and dilutant.

HSN Code : 9027

Model	LMVM20
Speed Range	0-2500rpm
Shaking movement	Orbital
Orbital diameter	4 mm
Motor Rating input	58W
Motor Rating Output	10W
Run Type	Continuos / Touch Operation
Ambient Temperature range	5°C to 40°C
Display	None
Power	60W
Power supply	AC 220V / 50Hz
Dimension LxWxH (mm)	170x120x140
Weight	2.5kg

SPECIFICATIONS

★ Specifications are subject to change without notice.



## Digital Water Bath LMWB Series

### Salient Features

- It adopts new design structure, which could avoid the leakage of steam.
- There are pointer type temperature controller and intellectual type temperature controller for selecting. The intellectual temperature controller has high lightness digital display and key operating button, which is easy to operate. It has high precision on controlling the temperature.

Thermostatic Water Baths Uses Evaporating, drying, concentrating and thermostatically heating.

Widely adopted in medical and research units, factories, universities, chemical dyeing and petroleum

HSN Code : 8419

SPECIFICATIONS	Model	LMWB04	LMWB06
	Column		2 rows 4 holes
Make		LABMAN	
Temp. range		Rt+5~100°C	
Temp. Resolution Ratio		0.1°C	
Temp. Accuracy		±0.5°C	
Temp. Uniformity		±1°C	
Water sink		Stainless steel, surface electrolysis treatment	
Outer shell		Cold rolled steel plate, surface electrostatic powder spray	
Heater		Stainless steel U type heating tube	
Temp. control mode		PID	
Timer		0~999 min ( with timing function )	
Timing function		Fixed temperature operation, timing function, auto stop.	
Program		Optional: multi-section program control	
Additional function		Deviation correction, menu key lock, power failure back-up, power-off parameter memory, PID adjustable	
Sensor		Thermal resistor	
Safety device		Over-temperature alarm, short-circuit protection	
Power rating		800W	1200W
Inner Chamber size(WxLxH)mm		305x305x130	305x470x130
Packing size (WxLxH) (mm)		415x415x275	400x560x250
Internal volume (approx.)		12L	18L
Cover aperture		Ø120mm	
Cover number per hole		5	
Power Supply		AC 220V/ 3.6A(50/60Hz )	
Weight		6.5kg	8kg

★ Specifications are subject to change without notice.



## Probe Sonicator (Touch Screen) With Sound Proof Enclosure

### Salient Features

- ◆ Touchscreen display - 4.3 inches TFT
- ◆ User Password Protection available
- ◆ Microprocessor controlled and completely programmable.
- ◆ Large LCD display with Time setting .
- ◆ Temperature Indicator and controller.
- ◆ Auto-tuning for convenience and optimal processing efficiency.
- ◆ Variable Power Output control.
- ◆ Auto frequency tracking
- ◆ Output amplitude 0-100% adjustment.
- ◆ Automatic fault alarm.

Probe Sonicator is a multi-function and multi-purpose instrument that utilizes ultrasonic cavitation in liquid. It can be used for breaking many kinds of cells, bacteria, viruses, animal and plant tissues, also for emulsification and separation , homogenization, extraction, defoaming, cleaning, preparation of nanomaterials, dispersion and accelerated chemical reactions. Widely used in biology, medicine, agriculture, chemistry, materials science, pharmaceutical and other fields of teaching, research, production.

HSN Code : 8479

Model	PRO650
Make	LABMAN
Frequency	20-25KHz - Automatic tracking
Process capacity	0.5-500ml (approx.)
Probe Dia (Titanium Alloy) Standard	6mm (1/4")
Display	4.3 inches TFT
Display Function	Temperature, Power, Time, etc.
Temperature range(°C)	0-99°C
Timer (Selectable)	Yes
Overload Protection	Yes
User Password Protection	Available
Input method	Touch screen control,
Data Memory	20 groups
Output Power	6.5-650W (adjustable)
Power supply	AC 220V /50HZ
Dimensions LxWxH (mm)	490 x 370 x 280
Weight	10 kg + 5kg (Sound Proof Enclosure)

SPECIFICATIONS

★ Specifications are subject to change without notice.

Please use Probe Sonicator with stabilizer for better result

Optional Probe : 2mm, 3mm, 8mm, 10mm, 12mm

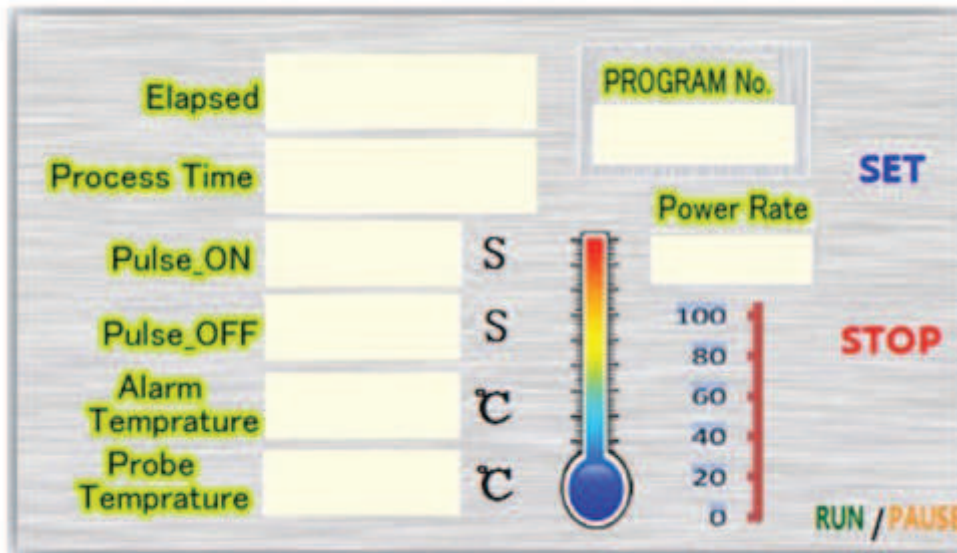
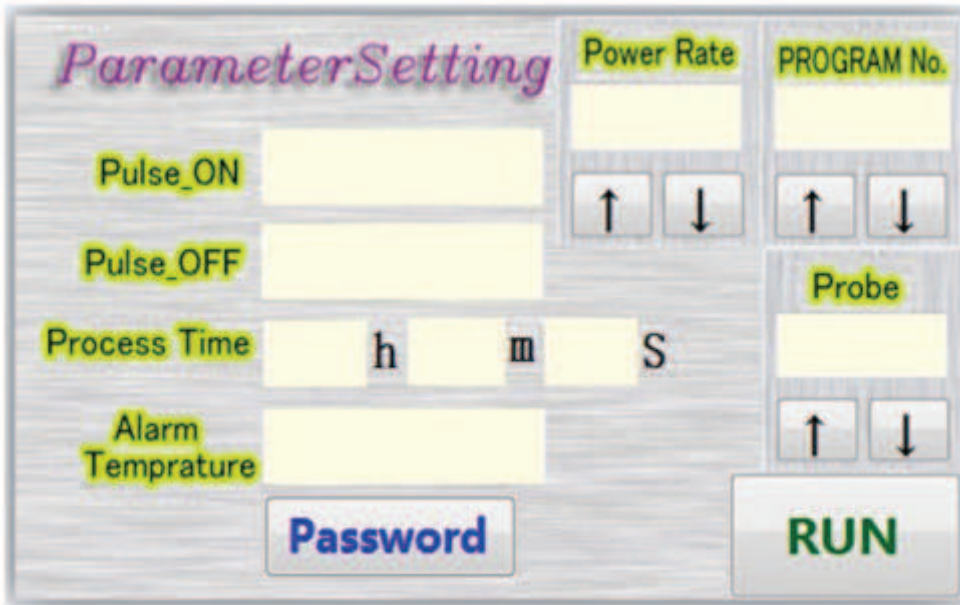
# Catalogue 2021-22



## Probe Sonicator - Touch Screen With Sound Proof Enclosure

PRO-650

Probes (mm)	Φ2	Φ3	★ Φ6	Φ8	Φ10	Φ12
Process capacity	0.5-5ml	3-10ml	10-100ml	20-200ml	30-300ml	50-500ml
Power ratio (1-100%)	1-40%	1-50%	1-70%	1-80%	1-90%	20-95%



LMUC SERIES

Upgraded Model



## Digital Ultrasonic Cleaner ( Sonicator )

Digital Ultrasonic cleaning is based on the cavitation effect caused by high frequency ultrasonic wave vibration signal in the fluid. Microscopic bubbles are formed, and they implode violently causing the cavitation which create an intense scrubbing action on the surface of the item being cleaned. The bubbles are small enough to penetrate microscopic crevices, cleaning them thoroughly and consistently.

Ultrasonic cleaning is extremely effective at removing dirt and grime which would normally require tedious manual cleaning by hand. It has been used to clean a wide variety of instruments and mechanical parts such as carburetors, returning them to almost "like new" condition without damage to delicate parts.

### *Salient Features*

- ◆ Inner Tank & Outer body made of Stainless Steel
- ◆ Digital RED LED display
- ◆ Temperature with timer function
- ◆ Ceramic heaters provides improved heating effect
- ◆ Drainage and cool fan available in 6L to 25L
- ◆ Overheat protector, Cooling fan
- ◆ Moisture-proof PCB
- ◆ User friendly
- ◆ High-performance transducers.

**Digital Ultrasonic Cleaner**  
**with**  
**Lid, Digital Timer, Heater & Basket**

# Catalogue 2021-22



## LMUC- SERIES

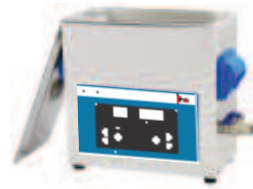
## Digital Ultrasonic Cleaner

HSN Code : 8456

SPECIFICATIONS	MODEL	LMUC3	LMUC6	LMUC9	LMUC12	LMUC25
	Tank Capacity (Approx.)	2.5L	5L	8L	11L	24L
	Tank Size (mm)	240x140x100	300x155x150	300x240x150	330x300x150	500x300x200
	Overall Size (mm)	270x170x240	330x180x310	330x270x310	360x330x310	550x330x360
	Ultrasonic Power	100W	150W	200W	300W	500W
	Heating power	100W	300W	300W	400W	500W
	Tank Drain	NA	Drain Valve			
	Time Setting	1-99 min.				
	Heating Temp.	0-80°C				
	Display	Digital RED LED				
	Frequency	40kHz				
	Lid Material	SS 304				
	Inner Tank Material	SS 304				
Outer Tank Material	SS 201					
Power Supply	AC 220V / 50 Hz					
Weight (approx.)	4 kg	8 kg	10 kg	13 kg	18 kg	

★ Specifications are subject to change without notice.

- STANDARD ACCESSORIES :**
- ◆ Main Instrument
  - ◆ Lid
  - ◆ Power cord
  - ◆ Basket
  - ◆ Instruction Manual



### Application Ranges

Note : Ultrasonic Cleaner is not recommended for the following gemstones Opal, Pearl, Emerald, Tanzanite, Malachite, Turquoise, Lapis and Coral

## LMDV-SERIES



### Salient Features

- ◆ Auto Range function
- ◆ Selectable Speed
- ◆ Direct Viscosity reading and temperature display
- ◆ Big Ultra Bright Backlight LCD Display
- ◆ Optional - Datalog Software for LMDV-100 & LMDV-200

### Digital Direct Reading Rotational Viscometer

Labman LMDV series is Rotational Digital Direct Reading Viscometer to measure absolute viscosity of Newton Liquids as well apparent viscosity of non – Newton liquid featured by high flexibility reliable Test result, easy operation and good appearance.

## Digital Rotational Viscometer

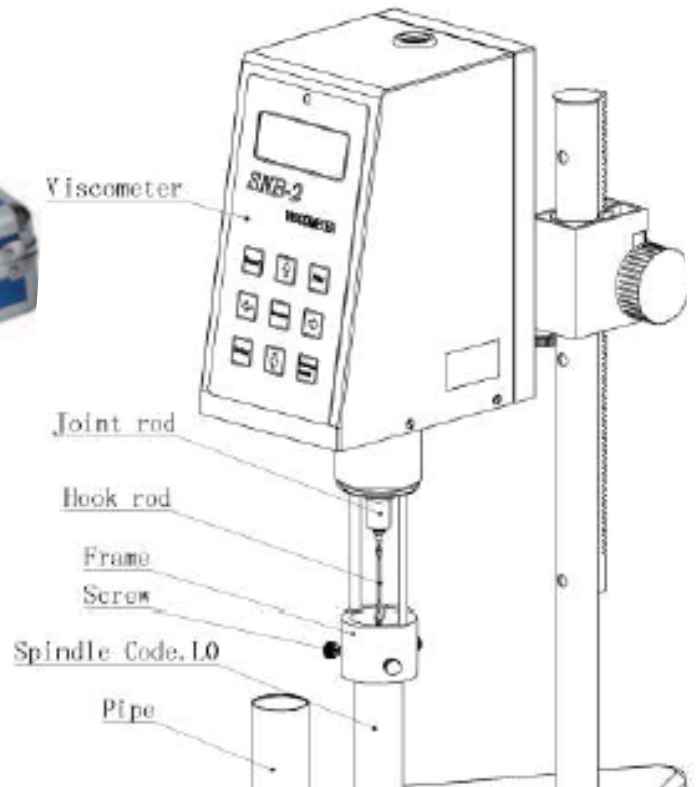
HSN Code : 9027

Model	LMDV60	LMDV100	LMDV200
Make	LABMAN		
Measuring Range mpa.s	20-2,000,000	20-2,000,000	20-6,000,000
Speed	0.3 to 60	0.3 to 100	0.1 to 200
No of Speed	8	18	54
No of Standard Spindle	4		
Display	LCD		
Temperature Monitoring	Yes		
Measurement Accuracy	+ / - 1% (FS)		
Repeatability	+ / - 0.5 % (FS)		
Output	RS232C Interface		
Power Supply	AC 220V / 50Hz		
Dimension LxWxH (mm)	400 x 350 x 360		
Weight	9 kg	10 kg	

SPECIFICATIONS

\* Specifications are subject to change without notice.

Optional Accessories: • Low Viscosity Adapter • Small Sample Adapter & Refrigerated Circulating Bath • Software



## LOW VISCOSITY ADAPTOR LVA30

Spindle range - 1~2K for LMDV-60  
 Spindle range - 0.6~6K for LMDV100  
 Spindle range - 0.3~6K for LMDV200  
 K=1000

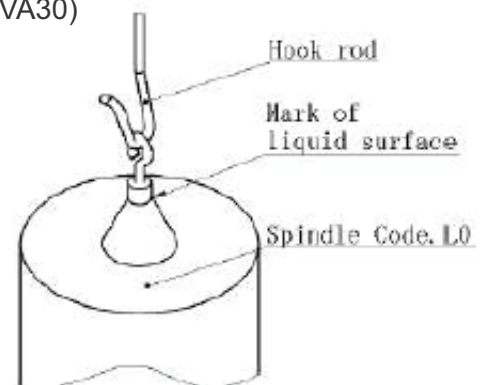
### Salient Features

- ◆ Ideal for low viscosity materials
- ◆ 20 to 30 ml sample is needed for test in Low Viscosity Adaptor (LVA30)
- ◆ Spindle Code.L0 is used with Low Viscosity Adaptor
- ◆ Stainless steel parts for easy to clean
- ◆ Especially used for less than 20m.pas. viscosity

### STANDARD ACCESSORIES

1. Joint rod
2. Hook rod
3. Frame
4. Spindle Code. L0
5. Pipe

**Note :** LVA30 is used for less than 20m.Pas viscosity measuring range.





## SMALL SAMPLE ADAPTOR SSA15

The Small Sample Adaptor, consisting of a coupling nut, an extension link, a spindle set (spindle#21,#27,#28 and #29), a sample chamber and an adjustable base

### Salient Features

- ✦ Small Sample Adaptor is recommended for small sample volume.
- ✦ Small Sample Adaptor widely used for Digital Viscometer
- ✦ 10 to 20 ml sample is needed for test in Small Sample Adaptor.
- ✦ Sample temperature can be controlled by using Refrigerated Circulating Bath (Optional)
- ✦ The Sample Chamber fit into a water jacket.

\* Small Sample Adaptor is an Optional Accessory with Digital Viscometer

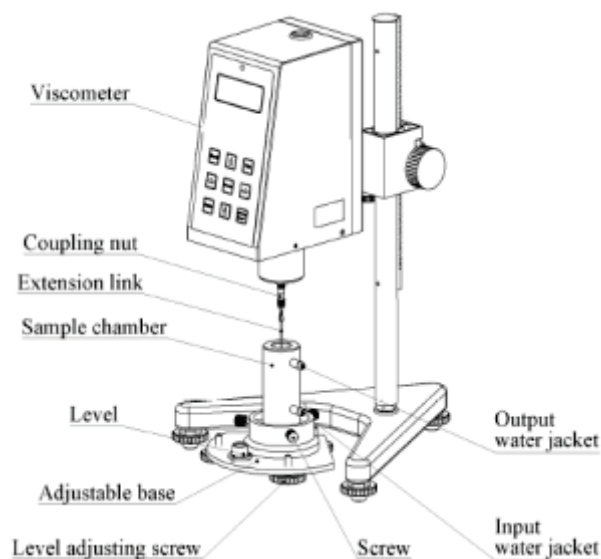
Note : Small Sample Adaptor order along with Viscometer only. It **cannot** be attached with the main instrument later on.

### Spindle Range Table

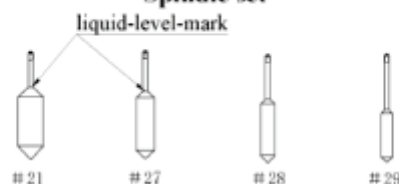
HSN Code : 9027

Spindle Model	21	27	28	29
LMDV-60	17~ 16.7K	8.3~ 83.3K	167~ 166.7K	333~ 333.3K
LMDV-100	10~50K	50~250K	100~500K	200~1M
LMDV-200	5~50K	25~250K	50~500K	100~1M

K=1000 M=1000000



### Spindle set



## LMIF SERIES



**Ice Flaker**

### Salient Features

- ◆ Fully Automatic microprocessor control
- ◆ Stainless Steel construction
- ◆ Continuous Ice Flakes Output
- ◆ CFC free compressor
- ◆ Low water level Indication
- ◆ Overload protection
- ◆ Noiseless operation
- ◆ Compact Design and low maintenance

### APPLICATION :

Hospitals, Educational Research Institutes & Biotechnology Laboratories

HSN Code : 8418

SPECIFICATIONS	MODEL	LMIF30	LMIF50	LMIF100
	Make	LABMAN		
	Capacity of Ice flake (kg per 24 hrs.)	30 kg	50 kg	100 kg
	Storage Capacity (kg ~ app.)	5 kg	7 kg	15 kg
	Storage bin	ABS Plastic		
	Cooling Method	Air		
	Ambient temperature	Below 25 °C for optimum working		
	Construction	Stainless Steel		
	Noise level	≤52 dB		
	Water Supply	3 / 4 inch BSP		
Refrigerant	R134A			
Input Power	180W	280W	420W	
Power supply	AC 220V / 50Hz			
Dimension LxWxH (mm)	300X493X547	380X543X722	548X611X883	
Gross Weight	36kg	45kg	64kg	

★ Specifications are subject to change without notice.

Please use Ice Flaker with stabilizer for better result



## ADP45 & ADP90 Automatic Digital Polarimeter Touch Screen

The polarimeter is an instrument used for determining the Optical rotation of substances. In this way, the concentration, content, purity, etc of certain substances can be find out. Therefore, the polarimeter has become one of the most useful instruments in laboratories of sugar industry, pharmaceutical industry, oil refining, foodstuff industry, chemical industry, universities and scientific research field.

### *Salient Features*

- ◆ Touch screen colour display
- ◆ Temperature display
- ◆ Faraday magneto-optical modulator
- ◆ Polarizer Polarizing film
- ◆ Digital Polarimeter based on Optical null principle
- ◆ No warm-up time is required when instrument is switched on
- ◆ Measuring multiple scales - specific rotation, optical rotation, sugar degree and concentration
- ◆ Automatic repetition-measurement for 6 times, and calculation of average value.
- ◆ Measurement of dark-coloured sample
- ◆ Insulated Sample chamber to keep sample temp. constant
- ◆ User can set retesting sample between 1 to 6
- ◆ Photodiode Detector
- ◆ Data display - date, time, measuring mode, length of tube, temp. test time, measured value (1 - 6 values), average value,
- ◆ Purity method - saccharic concentration

### **Pharmaceutical industry**

- ◆ Monitoring chemical processes
- ◆ Purity control and determination of concentrations
- ◆ Characterizations of new synthetic substances
- ◆ Hospitals & Pharmacies

### **Chemical industry**

- ◆ Purity control and determination of concentrations
- ◆ Analysis of optically-active components (qualitative and quantitative)
- ◆ Determination of changes in the configuration
- ◆ Monitoring chemical processes

### **Sugar industry**

- ◆ Quality control of original and end product
- ◆ Determination of fructose and glucose

### **Food industry**

- ◆ Determination of concentration
- ◆ Purity control
- ◆ Quality control

# Catalogue 2021-22



HSN Code : 9027

		ADP45	ADP90
<b>MODEL</b>			
Make		LABMAN	
No. of Measuring Mode (4)		Optical Rotation, Specific Rotation, Sugar, Concentration	
Measuring Mode	Optical & Specific Rotation	Rotation	
Measuring range		-45° +45°	-90° + 90°
Unit		Angle°	
Resolution		0.001°	
Accuracy		±0.01°	±0.004°
Measuring Mode	Sugar	Sugar	
Range		±120°Z	±259°Z
Unit		°Z	
Resolution		0.01°Z	0.001°Z
Accuracy		±0.02°Z	±0.004°Z
Measuring Mode	Concentration	Concentration	
Range		0-99.9g/ml	0-100g/ml
Unit		g/100 ml	
Resolution		0.1mg/ml	
Accuracy		±0.5g/100ml	
Temperature control	Peltier	-	Peltier (Built In)
Temperature control range		-	10-50° C
Accuracy		-	±0.1°C & ±0.2°C
Constant temp. test tube		-	100 mm
Memory		-	5000 data sets
Display	General spec.	8" Colour datamatrix Touch Screen	
Sample transmittance		> 1%	> 0.1%
Light Source		LED (2.4V, 1W, 5000hours)	
Operation Wavelength		589.3nm	589.44nm
Length of Test Tube		100mm & 200mm	
Interface	USB & RS232C	USB Ethernet	
Dimension LxWxH(mm)	850 x 470 x 380	745 x 410 x 295	
Weight	35kg	42kg	

Optional Accessories : Micro test tube.

\* Specifications are subject to change without notice.

\* Software - Free

**LMAR1317**



### *Salient Features*

- ◆ Measurement of Refractive index nD of transparent or translucent liquid and solid substance.
- ◆ Measurement of brix of sugar solution
- ◆ Prism made of hard glass
- ◆ Visual aim and LCD Display
- ◆ Automatic correction of the effect of temperature on the Brix
- ◆ Printer Interface for direct data print-out.

## Digital ABBE Refractometer

The instruments can widely be used in petroleum, chemical, pharmaceutical, sugar, refining and food industries, as well as in related colleges, universities and scientific research institutions for measuring the refractive index  $n_D$  of transparent, subtransparent liquid or solid substance.

This instrument can also be used to measure the Brix (BX) of the sugar solution, and correct the affect of temperature on the Brix automatically. In addition, this instrument can display the temperature of the sample.

HSN Code : 9027

Model	LMAR1317
Make	LABMAN
Measurement range Refractive index nD	1.3000-1.7000
Measurement range dissolved solids Brix	0-100%
Accuracy refractive index nD	$\leq \pm 0.0002$
Accuracy Dissolved Solids Brix	$\pm \leq 0.1\%$
Temperature Resolution	0.1°C
Temperature Range (Min 0.1°C)	0.-50°C
Correcting Range of Brix Versus Temperature	15-45°C
Usage Temperature Range	Ambient to 35°C
Interface	RS232C
Dimensions (mm)	370x240x470
Power Supply	AC 220V / 50Hz
Weight	12 kg

**SPECIFICATIONS**

★ Specifications are subject to change without notice.

Sample temperature can be controlled by using Refrigerated Circulating Bath ( Optional )

RFM950 & 970



## Salient Features

- ◆ Fully automatic measuring system
- ◆ Touch Screen display.
- ◆ Measure the °Brix of sugar solution
- ◆ Display the temperature of sample
- ◆ Correct effect of temperature on the °Brix automatically
- ◆ Memory upto 1024 results
- ◆ Reading Time 2 seconds.
- ◆ Calibration password protected
- ◆ Easy clean prism & Simple operation
- ◆ User can set the Scan times, Type, Revise, Sample ID, Calender
- ◆ **RFM-970 - Thermostatic Temperature Control  $\pm 10^{\circ}\text{C}$**

## Automatic Digital Refractometer Touch Screen

This instrument can widely be used in petroleum, chemical, pharmaceutical, sugar refining and food industries, as well as in related colleges, universities and scientific research institutions for measuring refractive index nD of transparent, semi transparent liquid.

This instrument can also be used to measure the °Brix (BX) of the sugar solution, and correct the effect of temperature on the °Brix automatically. In addition, this instrument can also display the temperature of the sample.

HSN Code : 9027

Model	RFM950	RFM970
Display	Touch Screen	
Measuring range - Refractive index nD	1.30000-1.70000	
°Brix (BX)	0 - 100 %	
Measuring accuracy- Refractive index nD	$\pm 0.0002$	
Dissolved solids °Brix	$\pm 0.1\%$	
Measuring resolution - Refractive index nD	0.00001	
Dissolved solids °Brix	0.01 %	
Temperature display range	0 to 50°C	
<b>Thermostatical Control Range</b>	-	Room Temperature $\pm 10^{\circ}\text{C}$
Temperature Control Accuracy	$\pm 0.5^{\circ}\text{C}$	
Memory & Output Interface	1024 data & RS232C / USB	
Power supply	AC 220V / 50Hz	
Dimension LxWxH (mm)	500 x 330 x 220	
Weight	9kg	

STANDARD ACCESSORIES : 3 Pin Power Cable , USB Cable, Software CD, Instruction Manual,

★ Specifications are subject to change without notice.



## Gradient Thermal Cycler PCR Touch Screen

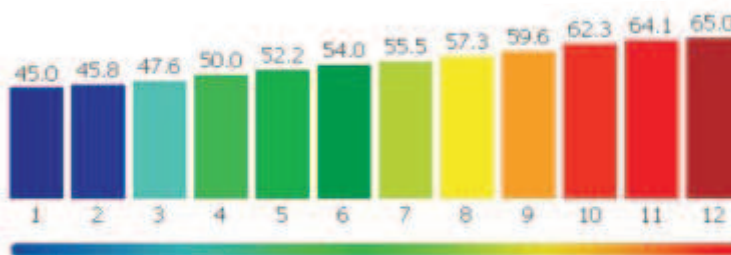
Polymerase Chain Reaction (PCR) is widely used in Molecular biology. As PCR progresses, the DNA thus generated is itself used as a template for replication. With PCR it is possible to amplify a single or few copies of a specific DNA fragment across several orders of magnitude, generating millions of copies of the DNA fragments.

### *Salient Features*

- ◆ Advanced technologies, WINDOWS operating system.
- ◆ Automatic restart after power failure.
- ◆ Each thermal block has 4 independent temperature control sensors and 8 peltier heating units to ensure accurate and uniform temperature across block surface, and provide users with replicating previous condition set-up.
- ◆ 8" TFT color touch-screen with graphical display provides easy use for setting up and monitoring set parameter.
- ◆ The actual and target temperatures can be viewed and displayed graphically in real time.
- ◆ Built-in 11 standard program file template, can quickly edit the required files.
- ◆ Internal flash memory for 10000 typical PCR files in free configurable folders.
- ◆ Compatible with mouse, keyboard, capable to transfer data and perform software updates via USB Drive.
- ◆ Applicable with the following 0.2ml tube models: non-skirted, semi and fully skirted plated.
- ◆ Replaceable module, dual-block module can simultaneously run two different PCR programs.

Temperature  °C

Gradient  °C



# Catalogue 2021-22



HSN Code : 9027

MODEL	PCR9602G
Capacity	96×0.2ml
Make	LABMAN
Temperature Range	0 ~ 100°C
Max. Heating Rate	5°C/s
Max. Cooling Rate	4°C/s
Uniformity & Accuracy	≤±0.1°C
Display Resolution	0.1°C
Temperature Control	Block\Tube
Ramping Rate Adjustable	0.1 ~ 5°C
Gradient Uniformity	≤±0.2°C
Gradient Accuracy	≤±0.2°C
Gradient Temp. Range	30 ~ 100°C
Gradient Spread	1 ~ 30°C
Hot Lid Temperature	30 ~ 110°C
Hot Lid Height Adjustable	Stepless adjustable
Number of Programs	10000 +(USB FLASH)
Max. No. of Step	30
Max. No. of Cycle	99
Time Increment/Decrement	1 Sec ~ 9 Min 59 Sec
Temp. Increment/Decrement	0.1 ~ 9.9°C
Pause Function	Yes
Auto Data Protection	Yes
Hold at 4°C	Forever
Print, LAN to computer,	Yes
LCD display	Touch Screen, 8inch , 800×600 Pixels, TFT
Communication	USB2.0 , LAN
Power Supply	85 ~ 264VAC , 47 ~ 63Hz , 600 W
Dimension (L×W×H)	380 × 240 × 260 mm
Weight	9 kg

SPECIFICATIONS

★ Specifications are subject to change without notice.

**LMMS5LC**



### *Salient Features*

- ✦ Digital LCD display with back light
- ✦ Big Size Ceramic hot plate with flame protection and durability
- ✦ Heating and stirring can proceed simultaneously.
- ✦ Temperature & Stirring speed is stepless adjusted.
- ✦ Real temperature & speed display on the screen simultaneously
- ✦ Two sensors, outside PT 100 sensor controls the liquid temperature, inside K type sensor control the hot plate temperature (selectable)
- ✦ Over temperature alarm
- ✦ **STANDARD ACCESSORIES**  
Stir Bar, Temperature Probe, Stand, Instruction Manual

## Ceramic Hotplate Magnetic Stirrer

HSN Code : 8479

MODEL	LMMS5LC
Make	LABMAN
Display	Digital
Speed (RPM)	100-2000
Plate Size (mm)	190 x 190
Top Plate Type	Ceramic
Max. Volume (ml)	5000
Temp. Controller	PID
Max Temp. ( Plate Surface)	300°C
Temp.resolution	0.1°C
Temp. Accuracy	±0.5°C(<100°C)±1°C(<300°C)
Power Wattage	600 W
Power supply	AC 220V / 50Hz
Dimension LxWxH (mm)	300 x 190 x 126
Weight	5 kg

**SPECIFICATIONS**

★ Specifications are subject to change without notice.

LMMS300



## Hotplate Magnetic Stirrer

### Salient Features

◆ **MICROPROCESSOR CONTROL**

The LMMS-300 hot plate magnetic stirrer is operated by a digital control CPU. The CPU regulates the heating up to 300 °C

◆ **DIGITAL SPEED CONTROL**

Stirring speed is also controlled by the CPU from the keypad while the stirring speed is indicated on the bar graph.

◆ **PROGRAMABLE**

Operator can setup the objective temperature, hold temperature, stirring time and speed.

◆ **AUTOMATIC TEMPERATURE CONTROL**

Connect the temperature probe and place into glass container being stirred to measure and maintain the object temperature.

Accuracy is  $\pm 1$  °C.

◆ **STANDARD ACCESSORIES**

Stir Bar, Temperature Probe, Instruction Manual

HSN Code : 8479

MODEL	LMMS300
Make	LABMAN
Display	LCD
Max. Volume (ml)	2000 ml
Speed (RPM)	1250 rpm
Top Plate Size	135 x 135 mm
Plate Material	Steel
Max.Temp. (Plate Surface)	300°C
Temp. Accuracy	$\pm 1^{\circ}\text{C}(<100^{\circ}\text{C}) \pm 3^{\circ}\text{C}(<300^{\circ}\text{C})$
Timer	999 minutes
Power supply	AC 220V / 50 Hz
Dimensions LxWxH (mm)	230 x 180 x 120
Weight	2.3 kg

SPECIFICATIONS

★ Specifications are subject to change without notice.



**pH Meter - Economic**  
Microprocessor Based

#### SALIENT FEATURES

- ✦ Manual Temperature Compensation
- ✦ There is a microprocessor chip inside the meter and the appearance of meter looks nice with user friendly operation. Some of the features are as under
- ✦ Large LCD display with blue background simultaneous display of pH and temperature
- ✦ It has intelligent functions for calibration, data storage / Memory.
- ✦ Automatically display the percentage of slope after calibration is over.
- ✦ Equipped with electrode holder and calibration buffer solution, which is more convenient to use.

HSN Code : 9027

#### SPECIFICATIONS

MODEL	LMPH9
Make	LABMAN
Range	0 to 14.00 pH
pH Resolution	0.1 pH / 0.01 pH
Accuracy	± 0.01 pH
Calibration Points	up to 3 points
pH Buffer options	USA (pH 4.01, 7.00, 10.01)
mV Range	±1999 mV
Accuracy	± 1 % FS ± 1 digit
Resolution	1mV
Temperature Range	0 to 100°C,
Accuracy	± 0.5°C
Resolution	0.1°C
Temperature Compensation	0~100°C, Manual
Connector	BNC
Display	LCD
Power Requirements	DC9V, using AC adapters, AC 220V / 50Hz
Dimensions ( Lx W x H)	160 × 190 × 170 mm
Weight	750g

★ Specifications are subject to change without notice.

**STANDARD ACCESSORIES :** pH Meter, pH Electrode , pH Buffer - 4.01, 7.00, Power Adapter, Electrode Stand, Instruction manual.

pH Meter - 3 point Calibration

LMPH10  
Microprocessor



## pH Meter 3 Point Calibration

LMPH10 is an easy-use benchtop pH meter designed for daily testing and controls are required. The meter has a clear and bright back light LCD display that show the measured value, mode indicators and help messages

### *Salient Features*

- Large back light LCD display shows mode indicators and help messages.
- Up to 3 points push-button calibration with auto-buffer recognition.
- Selectable pH buffer standards and temperature units.
- Automatically calculates and displays electrode slope after calibration.
- Automatic Temperature Compensation (ATC) ensures highly accurate measurements over the entire range.
- Automatic endpoint function freezes the stable measured values
- Help message as a operational guide to helps you understand how to use meter.
- Setup menu lets user customizes buffer standards, calibration points, temperature units, automatic or manual hold function, auto-off feature to meet personal preferences.
- Reset function can resumes all settings to factory default values

## SPECIFICATIONS

### pH Meter - 3 point

HSN Code : 9027

	<b>MODEL</b>	<b>LMPH10</b>
	Make	LABMAN
pH	Range	-2.00 to 16.00 pH
	pH Resolution	0.01 pH
	Accuracy	± 0.01 pH
	Calibration Points	up to 3 points
	pH Buffer options	USA (pH4.01, 7.00, 10.01) or NIST (pH4.01, 6.86, 9.18)
mV	mV Range	±1999 mV
	Accuracy	± 1 mV
	Resolution	1mV
Temperature	Range	0 to 105°C
	Accuracy	± 0.5°C
	Resolution	0.1°C
	Temperature Compensation	0~100°C, Manual / Automatic
General	Hold Function	Available
	Auto Off Function	Available
	Connector	BNC
	Display	LCD (135× 75mm)
	Power Requirements	DC9V, using AC adapters, 220VAC/50Hz
	Dimensions ( L x W x H)	210 × 205 × 75 mm
	Packing Box Size	300 x 250 x 175 mm
	Weight	1.5 kg

★ Specifications are subject to change without notice.



### Applications

- Water and wastewater treatment
- Research and education
- Environmental and agricultural monitoring
- Drinking water and cosmetics
- Other industrial applications

#### STANDARD ACCESSORIES :

- pH Electrode, Liquid Calibration pH Buffer Bottle ( 4.01, 7.00 pH), Temperature Probe, Electrode Stand, 9V Power Adaptor, Instruction Manual

LMPH12



## Benchtop pH/mV/°C Meter

LMPH12 is a high precision pH meter with large backlit LCD display. The meter can displays many useful prompt messages to helps you quickly and easily measuring the samples.

### *Salient Features*

- ◆ During the pH mode, Up to 5 points push-button calibration with auto- buffer recognition.
- ◆ Selectable pH buffer standards and temperature units.
- ◆ Automatically calculates and displays electrode slope after calibration.
- ◆ Automatic Temp. Compensation (ATC) ensures highly accurate measurement over the entire range.
- ◆ Calibration due reminder prompts you to calibrate the meter regularly.
- ◆ During ORP mode, Single point offset calibration allows user adjusts displayed value to a known standard.
- ◆ Absolute or Relative millivolt (R.mV) measurement provides accurate ORP readings.
- ◆ Automatic endpoint function freezes the stable measured values for easy reading and recording data.
- ◆ Help message as an operational guide to helps you understand how to use meter.
- ◆ Setup menu lets user customizes buffer standards, calibration points, stability conditions, resolution, temperature units, date and time to meet measurement requirements.
- ◆ Reset function can resumes all settings to factory default values.
- ◆ Expanded memory stores and recalls up to 500 readings.
- ◆ Built-in real-time clock stamps stored data to meets GLP standards.

## *pH Meter - 5 Point Calibration*

HSN Code : 9027

<b>SPECIFICATIONS</b>	<b>Model</b>	<b>LMPH12</b>
	Make	LABMAN
	pH Range	-2.000~20.000pH
	pH Accuracy	±0.002pH
	pH Resolution	0.001, 0.01, 0.1pH ( Selectable)
	mV Range	±1999mV
	mV Accuracy	±0.2mV
	mV Resolution	0.1, 1mV ( Selectable )
	Calibration	upto 5 points
	pH Buffer Option	USA (pH1.68,4.01,7.00,10.01,12.45), NIST (pH1.68,4.01,6.86,9.18,12.45) DIN (pH1.09,4.65,6.79,9.23,12.7) OR User Define
	Calibration due reminder	1 to 30 days or Off
	Temp. Range	0~105°C, 32~212°F
	Temp. Accuracy	±0.5°C, ±0.9°F
	Temperature Compensation	0~100°C, 32~212°F, Automatic or Manual
	Auto-Off	Manual or Automatic (10, 20, 30 minutes after last key pressed (Selectable))
	Memory	500 readings with date & time
	Power Supply	DC 5V adapters, using AC 220V / 50Hz,
Dimensions LxWxH (mm)	210×188×60	
Weight	1.2kg	

★ Specifications are subject to change without notice.

★ Software - NA

### STANDARD ACCESSORIES :

- ◆ pH Meter
- ◆ pH Electrode,
- ◆ pH Buffers,(pH 4.01, 7.00, 10.01)
- ◆ Temperature Probe,
- ◆ Electrode Stand,
- ◆ 5V Power Adaptor
- ◆ Instruction Manual.



Conductivity / TDS Meter - 3 point

LMCM20  
Microprocessor



## Conductivity / TDS Meter 3 Point Calibration

LMCM-20 is a Auto Ranging, microprocessor Conductivity TDS / meter for measurement of conductivity and Total Dissolved Solids of liquids.

The meter is widely used in environmental and ecological studies for monitoring the purity and concentration of liquids.

### *Salient Features*

- Multipoint push - button calibration allows user to use customized calibration solutions  
[Up to 3 points, Default 84uS, 1413uS, 12.88mS and 111.8mS]
- Auto - Ranging for conductivity and TDS measurements.
- Selectable TDS conversion factors and temperature units (°C or °F)
- Adjustable TDS factors, cell constants and temperature units.
- Automatic Temperature Compensation (ATC) ensures highly accurate measurements over the entire range.
- Automatic endpoint function freezes the stable measured values for easy reading and recording data.
- Help message as a operational guide to helps you understand how to use meter.
- Setup menu lets user customizes calibration points, temperature units, automatic or manual hold function, auto-off feature to meet personal preferences.
- Reset function allows user to returns all settings to the factory default values

## SPECIFICATIONS

## Conductivity / TDS meter

	<b>MODEL</b>	<b>LMCM20</b>
	Make	LABMAN
Conductivity	Range	0~20.00, 200.0, 2000 $\mu$ S/cm, 20.00, 200.0mS/cm ( 5 auto ranges)
	Accuracy	$\pm$ 1% F.S
	Resolution	0.01, 0.1, 1
	Calibration Points	up to 3 points
	Conductivity Buffer Option	10 $\mu$ S/cm, 84 $\mu$ S/cm, 1413 $\mu$ S/cm, 12.88mS/cm, 111.8mS/cm ( any three )
	Temperature Compensation	0~100°C, 32~212°F, Manual or Automatic
	Temperature Coefficient	0.0~10.0%/°C
	Cell Constant	K=0.1, 1, 10
	Normalization Temperature	25°C
TDS	Range	0~10ppt (Max. 200 ppt, depending on factor setting & conductivity range)
	Accuracy	$\pm$ 1% F.S
	TDS Factor	0.1 to 1.0 (Default 0.5)
Temperature	Temperature Range	0 to 105°C
	Accuracy	$\pm$ 0.5°C
	Resolution	0.1°C
General	Hold Function	Available
	Auto Off Function	Available
	Connector	6-pin Mini Plug
	Display	LCD
	Power Requirements	DC9V, using AC adapters, 220VAC/50Hz
	Dimensions LxWxH	210 × 205 × 75mm
	Packing Box Size	300 x 250 x 175 mm
Weight	1.5kg	

★ Specifications are subject to change without notice.



### STANDARD ACCESSORIES :

- Conductivity Cell (K=1), Calibration Solutions - 84.0  $\mu$ S/cm, 1413  $\mu$ S/cm, 12.88 mS/cm. Temperature Probe, Electrode Stand, 9V Power Adaptor, Instruction Manual

### Applications

- Water and wastewater treatment
- Research and educations
- Environmental monitoring and aquaculture
- Printing and chemical industry

( 5 Point - Calibration for pH & Conductivity )

LMMP30

pH  
ORP  
Conductivity  
TDS  
Salinity  
Resistivity  
°C



## Water Quality Multiparameter

### Salient Features

**PH MODE:** Up to 5 points push-button calibration with auto-buffer recognition. Selectable pH buffer standards, (USA, DIN, NIST, User-defined) resolution (0.1, 0.01, 0.001pH) temperature units (°C or °F) Automatically calculates and displays electrode slope that helps you decide whether to replace pH electrode. Calibration due reminder prompts you to calibrate the meter regularly.

**ORP MODE:** Absolute or Relative mV measurements provides accurate ORP measured value. .1 point offset calibration allows user adjusts displayed value to a known standard.

**CONDUCTIVITY/TDS/SALINITY/RESISTIVITY MODE:** Up to 5-point push-button calibration allows user to uses customized calibration solutions. Default 10uS, 84uS, 1413uS, 12.88mS and 111.8mS) Adjustable TDS conversion factors, cell constants, temperature coefficients and normalization temperature. (20°C or 25°C) Allows user selects linear or pure water temperature compensation modes. In salinity measurement modes, selectable practical salinity (PSU) or seawater measurement standards. (ppt)

- ◆ Selectable either temperature units between degrees Celsius (°C) and degrees Fahrenheit (°F)
- ◆ Automatic Temperature Compensation (ATC) ensures high accuracy of measurements
- ◆ Automatic endpoint function freezes the stable measured values for easy reading and recording data.
- ◆ Help message as a operational guide to helps you understand how to use meter.
- ◆ Setup menu lets user customize the calibration points. stability conditions of measurement. temp. units and date/time to meet personal preference.
- ◆ Reset function allows user to returns all setting to the factory default values.
- ◆ Expanded memory stores and recalls upto 500 readings.
- ◆ Built-in real-time clock stamps stored data to meets GLP standards.

### STANDARD ACCESSORIES :

- ◆ pH Electrode
- ◆ Conductivity cell (1.0)
- ◆ pH buffers (4.01, 7.00, 10.01)
- ◆ temperature probe
- ◆ Electrode Stand
- ◆ Power Adaptor
- ◆ Instruction Manual.

# Catalogue 2021-22



HSN Code : 9027

SPECIFICATIONS		Model	LMMP30
		pH Range	-2.000~20.000pH
pH Range	Resolution	0.001, 0.01, 0.1pH, Selectable	
	Accuracy	±0.002pH	
	Calibration Points	Up to 5 points	
	pH Buffer Option	USA, (pH1.68, 4.01,7.00,10.01,12.45), NIST (pH1.68/4.01/6.86/9.18/12.45), DIN (pH1.09,4.65,6.79,9.23,12.75)	
ORP	ORP (mV) Range / Calibration	0 ~ ±1999.9mV / 1 point	
	Resolution	0.1, /1mV, Selectable	
	Accuracy	±0.2mV	
	Measuring Mode	Absolute mV or Relative mV	
Conductivity	Conductivity Range	0~200mS/cm	
	Resolution	0.01 / 0.1 / 1	
	Accuracy	±0.5% Full Scale	
	Cell Constant	0.1 / 1 / 10 / User defined	
	Temperature Coefficient	0.0~10.0% per °C	
	Calibration Points	Up to 5 points	
	Calibration Solutions	10uS/cm, 84uS/cm, 1413uS/cm, 12.88mS/cm, 111.8mS/cm	
TDS	Compensation Modes	Linear or Pure Water	
	TDS Range	0~10ppt ( Max.200 ppt, Depending on factor setting )	
	Resolution	0.01 / 0.1 / 1	
	Accuracy	±1% Full Scale	
Salinity	TDS Factor	0.0~1.0	
	Salinity Range	0~80ppt	
	Resolution	0.01 / 0.1 / 1	
Resistivity	Accuracy	±1% Full Scale	
	Measurement Mode	Practical Salinity (PSU) or Seawater Measurement Standard (ppt)	
	Resistivity Range	0~100MΩ	
	Resolution	1 / 0.1 / 0.01	
Temperature	Accuracy	±1% Full Scale	
	Temp. Range	0~100°C, / 32~212°F	
	Temp. Compensation	Automatic or Manual	
General Specific.	Temp. Accuracy	±0.5°C, ±0.9°F	
	Auto-Off Function	10 / 20 / 30 minutes after last key pressed	
	Reset & Auto Hold Function	Yes	
	Electrode Diagnosis	Slope, Offset	
	Stability Conditions	High or Low, Selectable	
	Calibration due reminder	1 to 30 days, Selectable	
	Memory	500 data sets with Date/Time	
Connector	BNC 6-pin connector		
Dimensions (LxWxH)& Weight	210 × 188 × 60 mm & 1.2kg		

★ Specifications are subject to change without notice.

( 5 Point - Calibration for pH & Ion )

LMION40



## Benchtop ION/pH/mV/°C Meter

LMION40 is a high accuracy meter, used for measuring the ION concentration, ORP and pH values of liquids. The meter widely used in environmental studies, chemical labs, swimming pools etc.

### *Salient Features*

- ✦ During the pH mode, Up to 5 points push-button calibration with auto-buffer recognition
- ✦ Selectable pH buffer standards and temperature units.
- ✦ Automatically calculates and displays electrode slope after calibration.
- ✦ During the ion mode, 2 to 5 points push-button calibration from low to high concentrations
- ✦ Direct readout ion concentration simplifies the elaborate measurement process.
- ✦ Automatic Temperature Compensation (ATC) ensures highly accurate measurements over the entire range.
- ✦ Automatic endpoint function freezes the stable measured values for easy reading and recording data.
- ✦ Calibration due reminder prompts you to calibrate the meter regularly.
- ✦ Help message as a operational guide to helps you understand how to use meter.
- ✦ Setup menu lets user customizes buffer standards, calibration points, stability conditions, resolution, measurement units, date and time to meet measurement requirements.
- ✦ Reset function can resumes all settings to factory default values.
- ✦ Built-in real-time clock stamps stored data to meets GLP standards.

**STANDARD ACCESSORIES :** pH Electrode, Temperature Probe, Electrode Stand, Power Adaptor Instruction Manual.

## SPECIFICATIONS

### *Ion / pH Meter - 5 Point Calibration*

pH	<b>Model</b>	<b>LMION40</b>
	Make	LABMAN
	pH Range	-2.000 ~ 20.000pH
	pH Accuracy	±0.002pH
	Resolution	0.001,0.01,0.1pH ( Selectable )
	Calibration Points	up to 5 points
Ion	Ion Concentration Range	0.001~19999 ppm,mg/L,mol/L (Selectable Depending on meas. Range of Ion Selective Electrode)
	Ion Concentration Accuracy	±0.5% Full Scale ( Monovalent),±1% Full Scale (Divalent)
	Ion Resolution	0.001, 0.01, 0.1, 1
	Calibration Points	up to 5 points
mV	mV Range	±1999.9 mV
	mV Accuracy	±0.2mV
	Resolution	0.1/1mV, Selectable
	Calibration points	1 point (Only for Relative mV mode)
Temperature	Temperature Range	0~105°C, 32~221°F
	Accuracy	±0.5°C,±0.9°F
	Resolution	0.1°C,
	Calibration Points	Ion / pH : Up to 5 Points
Others	pH Buffer Option	USA (pH1.68,4.01,7.00,10.01,12.45), NIST (pH1.68,4.01,6.86,9.18,12.45), DIN (pH1.09,4.65,6.79,9.23,12.7) OR User Define
	Memory	500 data sets with Date & Time
	Output	USB Communication interface.
	Connector	BNC
	Hold Function	Selectable
	Temperature Compensation	0~100°C,32~212°F,
	Compensation Mode	Automatic or Manual
	Stability Conditions	Low or High, Selectable
	Calibration due Reminder	1 to 31 days or Off
	Power Supply	DC 5V adapters, using AC 220V / 50Hz,
	Dimensions LxWxH (mm)	210 × 188 × 60
	Weight	1.2kg

**LMD050**  
(Microprocessor based)



## Dissolved Oxygen Meter

### Salient Features

- ◆ 1 or 2 points auto-calibration (100% in saturated air or air-saturated water, 0% in zero oxygen solution).
- ◆ Automatically compensates salinity and barometric pressure after manual input.
- ◆ Selectable readout in ppm, mg/L or % saturation.
- ◆ Selectable temperature units between degrees Celsius (°C) and degrees Fahrenheit (°F).
- ◆ Automatic Temperature Compensation ensures high accuracy of measurements.
- ◆ Automatic endpoint function freezes the stable measured values for easy reading and recording data.
- ◆ Calibration due reminder prompts you to calibrate the meter regularly.
- ◆ Help message as an operational guide to helps you understand how to use meter.
- ◆ Setup menu lets user customize calibration points, resolution, stability condition of measurements, temperature units, date/time to meet personal preferences.
- ◆ Reset function allows user to returns all settings to the factory default values.
- ◆ Expand memory stores and recalls up to 500 readings.
- ◆ Built-in real-time clock stamps stored data to meets GLP standards.

LMD050 is a professional bench top dissolved oxygen meter designed for laboratory applications. The meter is equipped with a polarographic sensor for measurement of dissolved oxygen concentration or % saturation in water

HSN Code : 9027

Model	LMD050
Make	LABMAN
Dissolved Oxygen Range	0.00~20.00mg/L or ppm
Resolution	0.1, 0.01 ppm, (Selectable)
Dissolved Oxygen Accuracy	± 0.2mg/L or ppm
Saturation of Oxygen	0.0~200.0%
Accuracy	± 2.0%
Temperature Range	0.0~50.0°C
Temperature Accuracy	± 0.5°C
Temperature Compensation	0~50°C, Automatic
Salinity Correction	0~50g/L
Barometric Pressure Correction	60.0~112.5kPa, 450~850mmHg
Calibration Points	1 or 2 points (100% in air or 0% in zero oxygen solution )
Memory	500 data sets with data & Time
Power supply	DC 5V adapters, using AC 220V / 50Hz,
Dimensions LxWxH (mm) & Weight	210 X 188 X 60 & 1.2 kg

SPECIFICATIONS

★ Specifications are subject to change without notice.

**STANDARD ACCESSORIES** : Dissolved Oxygen Probe, Electrode Stand, 5V AC Adaptor & Instruction Manual.

Upgraded Model

LMSPUV1900



Double Beam UV-VIS. Spectrophotometer

## *Salient Features*

- ✦ The two detectors are used to measure sample and reference respectively and simultaneously for optimizing measurement accuracy.
- ✦ Lamp Selection enables conserving the life of D2 & Tungsten lamps. Real time clock for date & time stamping of results.
- ✦ **LIGHT PATH DESIGN: DOUBLE BEAM**  
LMSPUV1900 double light design can prevent circuit fluctuation and stray light to ensure stability of the instrument.
- ✦ **LONG PATH LIGHT DESIGN**  
LMSPUV1900 unique 520mm long light path design greatly improved resolution and the bandwidth can reach 0.5nm.
- ✦ **16MM OPTICAL BASE**  
LMSPUV1900 series use a rigid 16mm diecast aluminum base as their optical mount to ensure the stability and reliability.
- ✦ **6 INCHES LCD DISPLAY**  
LMSPUV1900 series have a 6 inches LCD display to show results and curves directly on the screen.
- ✦ **SOFTWARE FUNCTIONS ( Optional )**  
Multi functions operated directly on the spectrophotometer and display the test results' curve and data: wavelength scanning, standard curve, kinetics, multi wavelength scanning, DNA/protein test.
- ✦ **PERFECT CALIBRATION SYSTEM**  
All baseline, wavelength, dark current can be calibrated automatically to keep good running conditions.
- ✦ **DATA OUTPUT**  
LMSPUV1900 series are equipped with USB port to connect with a PC

# Catalogue 2021-22



HSN Code : 9027

## Doublebeam UV - VIS. Spectrophotometer

Model	LMSPUV1900	LMSPUV1900S
Cell Holder	Sample & Reference Cuvette Holder (10mm each)	
Bandwidth	1nm	0.5, 1.0, 2.0, 4.0 nm (variable)
Make	LABMAN	
Optical System	Double Beam(1200 Lines/mm Grating)	
Wavelength Range	190-1100nm	
Bandwidth	1nm	
Wavelength Accuracy	±0.3nm	
Wavelength Repeatability	±0.2nm	
Scanning Speed	Fast, Medium & Low	
Photometric Accuracy	±0.3%T	
Photometric Repeatability	0.2%T	
Photometric Range	-0.3-3A,0-200%T,0-9999C	
Stability	± 0.001A/h @ 500nm	
Baseline Flatness	± 0.001A/h	
Noise	± 0.001A/h	
Stray Light	≤0.05%T @ 220nm,360nm	
Data Output Port	USB	
Printer Port	Parallel Port	
Display	LCD	
Lamps	D2 Lamp & Tungsten Halogen Lamp (W Lamp)	
Detector	Silicon Photodiode	
Power Supply	AC 220V / 50Hz	
Dimension (LxWxH) mm	625x430x206	
Weight	30kg	

### SPECIFICATIONS

★ Specifications are subject to change without notice.

STANDARD ACCESSORIES		
UV Analyst Software		1 pc
10mm Glass Cuvette		4 pcs.
Power Cord		1 pc
Instruction Manual		1 pc.
10mm quartz cuvette		2 pcs.
Dust Cover		1 pc.



### Optional Accessories

✚ 8 cell programmable Holder

Upgraded Model

LMSPUV1200



UV - VIS. Spectrophotometer  
Single Beam

## *Salient Features*

### ◆ NUMERICAL KEYS

Microprocessor controlled, all parameters of this instrument can be easily set by numerical keys.

### ◆ 8MM THICK OPTICAL BASE

The instruments use a rigid die-cast aluminum base as its optical mount to ensure instrument stability and reliability.

### ◆ STANDARD CURVE

Can set up various standard curves according to customer's solutions and find the concentration of unknown solutions

### ◆ AUTO SETTING WAVELENGTH

Users set wavelength automatically through arrow keys to avoid operation errors.

### ◆ DATA OUTPUT

LMSP -UV1200 is equipped with USB port to connect with a PC to display spectrum scanning, kinetics and multi wavelength testing results on the screen through the optional software.

### ◆ IMPORTED HIGH QUALITY DEUTERIUM LAMP

This instrument uses imported flanged deuterium lamp with low stray light, photometric accuracy and easy replacing

- ◆ Data can be restored after a sudden power cut.
- ◆ Tungsten lamp & Deuterium lamp can be turned on/off individually to extend shelf life
- ◆ Large sample compartment, it can accommodate 5-100mm path length cuvettes with optional holders.

# Catalogue 2021-22



## UV - VIS. Spectrophotometer - Single Beam

HSN Code : 9027

<b>SPECIFICATIONS</b>	<b>Model</b>	<b>LMSPUV1200</b>
	Make	LABMAN
	Wavelength Range	190-1100nm
	Bandwidth	2nm
	Optical System	Single Beam, Grating 1200 lines / mm
	Wavelength Accuracy	±0.8nm
	Wavelength Repeatability	± 0.2nm
	Wavelength Setting	Auto
	Photometric Accuracy	±0.3%T
	Photometric Repeatability	± 0.2%T
	Photometric Range	-0.3-3A,0-200%T
	Stability	± 0.002A/h @ 500nm
	Baseline Flatness	± 0.002A/h
	Stray Light	≤ 0.05 % T
	Data Output	USB
	Printer Port	Parallel Port
	Display	LCD
	Cell Holder	10 mm 4 position cuvette holder
	Lamps	D2 Lamp & Tungsten Halogen Lamp ( W Lamp )
	Detector	Silicon Photodiode
Power Supply	AC 220V/50Hz	
Dimension (LxWxH) mm	460x360x225mm	
Weight	18kg	

★ Specifications are subject to change without notice.

<b>STANDARD ACCESSORIES</b>	Software	1 pc
	10mm Glass Cuvette	4 pcs.
	10mm Quartz Cuvette	2 pcs.
	Power Cord	1 pc
	Instruction Manual	1 pc.
	Dust Cover	1 pc.





## *Salient Features*

### ✦ LOW STRAY LIGHT

LMSPUV1000B is made of high quality components with rigid structure which ensures low stray light.

### ✦ STABILITY AND DURABILITY

LMSPUV1000B uses a rigid die-cast aluminum base as its optical mount to ensure instrument stability and Reliability.

### ✦ STRANDED CURVE

LMSPUV1000B can set up various standard curves according to customer's solutions and find the concentration of unknown solutions.

### ✦ MULTIPLE RESULTS READOUT

LMSPUV1000B can display wavelength, absorption and transmittance with 5 results per screen. It also has a memory store of up to 200 results.

### ✦ AUTO SETTING WAVELENGTH

Users can set wavelength automatically through arrow keys to avoid operation errors.

### ✦ DATA OUTPUT

LMSPUV1000B is equipped with USB port to connected with a PC to display spectrum scanning, kinetics and multi wavelength testing results on the screen. The software is optional.

### ✦ Data can be restored after a sudden power cut

# Catalogue 2021-22



## UV-Visible Spectrophotometer - Basic

HSN Code : 9027

<b>SPECIFICATIONS</b>	<b>Model</b>	<b>LMSPUV1000B</b>
	Make	LABMAN
	Optical System	Single beam, Grating 1200 lines/mm
	Wavelength Range	190-1000nm
	Bandwidth	2nm
	Wavelength Accuracy	±1nm
	Wavelength Repeatability	±0.5nm
	Wavelength Setting	Auto.
	Photometric Accuracy	±0.5%T
	Photometric Repeatability	±0.3%T
	Photometric Range	-0.3-3A,0-200%T
	Stray Light	≤0.3%T
	Stability	± 0.002A/h @ 500nm
	Display	LCD
	Detector	Silicon Photodiode
	Standard Cell Holder	4-position 10mm cell holder
	Light Source	D2 lamp & Tungsten Halogen Lamp ( W Lamp)
	Output	USB Port & Parallel Port(Printer)
Power Supply	AC 220V/50Hz	
Dimension (LxWxH) mm	490 x 370 x 220	
Weight	15kg	

★ Specifications are subject to change without notice.

<b>STANDARD ACCESSORIES</b>	Software	1 pc.
	10mm Glass Cuvette	4 pcs.
	10mm Quartz Cuvette	2 pcs
	Power Cord	1 pc.
	Instruction Manual	1 pc.
	Black Block	1 pc.
	Dust Cover	1 pc.



Upgraded Model

LMSPV325



Visible Spectrophotometer

## *Salient Features*

### ✦ MULTIPLE RESULTS READOUT

Can display wavelength, absorption and transmittance with 5 results per screen. It also has a memory store of up to 200 results.

### ✦ AUTO SETTING WAVELENGTH

Users set wavelength automatically through arrow keys to avoid operation errors.

### ✦ STANDARD CURVE

Can set up various standard curves according to customer's solutions and find the concentration of unknown solutions.

### ✦ DATA OUTPUT

LMSPV325 is equipped with USB port to connect with a PC to display spectrum scanning, kinetics and multi wavelength testing results on the screen.

### ✦ 2.5" LCD SCREEN

Equipped with a 2.5 LCD screen to give a clear display of standard curves and groups of results.

## Visible Spectrophotometer

HSN Code : 9027

<b>SPECIFICATIONS</b>	<b>Model</b>	<b>LMSPV325</b>
	Make	LABMAN
	Optical System	Single beam, Grating 1200 lines/mm
	Wavelength Range	325-1000nm
	Bandwidth	4nm
	Wavelength Accuracy	±1nm
	Wavelength Repeatability	±0.5nm
	Wavelength Setting	Auto
	Photometric Accuracy	±0.5%T
	Photometric Repeatability	±0.3%T
	Photometric Range	-0.3-3A,0-200%T
	Stray Light	≤0.3%T
	Stability	± 0.002A/h @ 500nm
	Display	LCD
	Detector	Silicon Photodiode
	Standard Cell Holder	4-position 10mm cell holder
	Light Source	Tungsten Lamp
	Output	USB Port & Parallel Port(Printer)
Power Supply	AC 220V/50Hz	
Dimension (LxWxH) mm	420x280x180	
Weight	10kg	

★ Specifications are subject to change without notice.

<b>STANDARD ACCESSORIES</b>	Software	1 pc
	10mm Glass Cuvette	4 pcs.
	Power Cord	1 pc
	Instruction Manual	1 pc.
	Black Block	1 pc.
	Dust Cover	1 pc.



Upgraded Model

LMSPV320



Visible Spectrophotometer

## *Salient Features*

### ✦ MICROPROCESSOR CONTROLLED

Microprocessor controlled, LMSPV320 can realize auto Zero and auto 100% T adjustment with one push-button.

LMSPV320 has a LCD display for direct readout of Transmittance, Absorption, and Concentration.

### ✦ GRATING MONOCHROMATOR

LMSPV320 uses 1200 line grating which ensures high resolution, low stray light and parameters accuracy.

### ✦ DATA OUTPUT

LMSPV320 is equipped with USB port which can be connected to PC to edit data through specific software (Optional)

Data can also be printed through a parallel port connected to a micro printer.

### ✦ COMPACT DESIGN, EASY TO CARRY

The compact design of LMSPV320 saves bench space while all components function remain performed like 120mm wide sample compartment and long optical path monochromator.

### ✦ DISPLAY MODE

LMSPV320 can display absorption, transmittance, concentration and coefficient directly by different mode switching.

### ✦ Large sample compartment, it can accommodate 5-100mm path length cuvettes with optional holders

# Catalogue 2021-22



## Visible Spectrophotometer

HSN Code : 9027

<b>SPECIFICATIONS</b>	<b>Model</b>	<b>LMSPV320</b>
	Make	LABMAN
	Optical System	Single Beam, Grating 1200 lines/mm
	Wavelength Range	325-1000nm
	Spectral Bandwidth	4nm
	Wavelength Accuracy	±2nm
	Wavelength Repeatability	±1nm
	Photometric Accuracy	±0.5%T
	Photometric Repeatability	±0.3%T
	Photometric Range	-0.3-3A,0-200%T
	Photometric Mode	T.A.C.F
	Stray Light	≤0.3%T
	Stability	± 0.002A/h
	Display	LCD
	Detector	Silicon Photodiode
	Output	USB Port & Parallel Port(Printer)
	Light Source	Tungsten Halogen Lamp
	Power Supply	AC 220V/50Hz
Dimension (LxWxH) mm	420x280x180mm	
Weight	8kg	

★ Specifications are subject to change without notice.

<b>STANDARD ACCESSORIES</b>	Software	1 pc.
	10mm Glass Cuvette	4 pcs.
	Power Cord	1 pc.
	Instruction Manual	1 pc.
	Black Block	1 pc.
	Dust Cover	1 pc.





**Refrigerated Circulating Bath**



**Digital Water Bath**



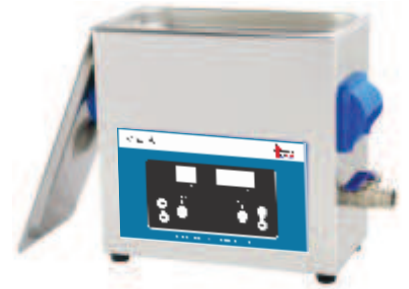
**Probe Sonicator**



**Peltier Sipper System**



**pH Electrode**



**Digital Ultrasonic Cleaner**



**Vortex Mixer**



**Digital Pipettes**



**Dry Bath Incubator**

We recommend to use UPS / Stabilizer for stable power supply

- \* All Models Demo Video's are available
- \* Comparison between 2 models available
- \* Frequent Asked Question (FAQ) available
- \* USER List available





*Reaching Worldwide*



Weighing & Weights  
**PRODUCT CATALOGUE**

**Part 1**

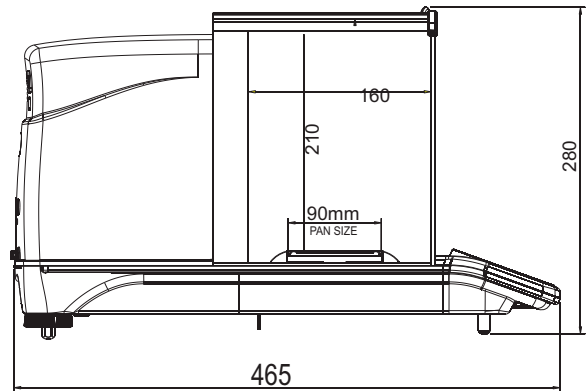
## Content

Product Name	Model	Page No.
Analytical Balance	MAB220LCD	3
Semi Micro Balance	MAB250	3
Analytical Balance	MAB220T	5
Analytical Balance	MAB201, MAB301	7
High Precision Balance	HPB201, HPB501, HPB1001	9
High Precision Balance	HPB3000	11
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# Catalogue 2021-22


















## MAB SERIES



### Semi Micro / Analytical Balance MAB220LCD & MAB250

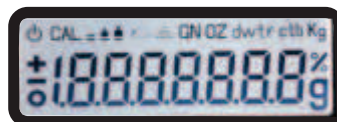
### Semi Micro / Analytical Balance 50 / 220 g - 0.01 / 0.1 mg

-  EMFC Electro Magnetic Force Compensation
-  Statistic Weighing
-  Animal Weighing
-  Check Weighing
-  White Back Light LCD display
-  Percentage Weighing
-  Multiple Weighing Units
-  Density Determination Function
-  RS232C Interface
-  Counting Weighing mode
-  Temperature
-  Underhook Weighing
-  Calibration with Internal weight
-  Time
-  Date



#### Standard Accessories

- Instrument
- Pan
- Pan support
- Draft ring
- Dust guard
- Cleaning cloth
- Power Cord
- User manual



ID	12345
	2016/10/28 12:03
	-----
	001+0100.0000 g
	002+0100.0000 g
	003+0100.0000 g
	004+0100.0000 g
	005+0100.0000 g
	-----
N	005
AVR	+0500.0000 g
S	0000.000 g
MAX	+0100.0000 g
MIN	+0100.0000 g
DIF	0000.0000 g
	-----

# Catalogue 2021-22



## Semi Micro / Analytical Balance

HSN Code - 9016

MODEL	MAB220LCD	MAB250
Max. ( Capacity )	220 g	50 / 220g
Readability ( d )	0.0001 g	0.00001 / 0.0001 g
Repeatability ( ± )	0.2 mg	0.02 / 0.2 mg
Linearity ( ± )	0.4 mg	0.04 mg
Min. (Capacity)	10 mg	1 mg
Verification Scale Intervals (e)	1 mg	
Calibration	Motorized Internal Calibration	
Class	Class I	
Display	LCD with back light	
Make	WENSAR	
Response Time	4 - 6 Sec	
Pan Size (mm)	90 mm Ø	
Tare Range	Full	
Operating Temperature	+15 °C to +30°C	
Sensitivity Drift ±	2ppm / °C	
Density	Function Available	
Data Output Mode Selection	Command & Continuous Output	
Key Sound	Yes	
Weighing Chamber Height	210 mm	
Unit	g, oz, ct, lb, ozt, dwt, GN,	
Application Mode	PCS,%, Weighing, Animal Weighing, Check Weighing, Density, Statistics Weighing	
Baud rate Options	1200, 2400, 4800, 9600	
Interface	RS232C	
Power Supply	AC 220V / 50-60 Hz	
Dimension (LxWxH) mm	580 x 385 x 480	
Weight	13 Kg	

SPECIFICATIONS

★ Specifications are subject to change without notice.












\* Density Determination Kit for Solid & Liquid Sample (Optional)

Antivibration table must for Semi Micro Balance (MAB250)

# Catalogue 2021-22



**Analytical Balance -Touch Screen**  
**MAB220T**

-  Electro Magnetic Force Compensation
-  Touch Screen display
-  Percentage Weighing
-  Multiple Weighing Units
-  Density Determination Function
-  RS232C Interface
-  Counting Weighing mode
-  Underhook Weighing
-  Calibration with Internal weight
-  Time
-  Date



## Analytical Balance -Touch Screen

HSN Code - 9016

MODEL	MAB220T
Max. ( Capacity )	220 g
Readability ( d )	0.0001 g
Repeatability ( ± )	0.2 mg
Linearity ( ± )	0.4 mg
Min. (Capacity)	10 mg
Verification Scale Intervals (e)	1 mg
Calibration	Internal Calibration
Class	Class I
Display	5 inch Touch Screen
Make	WENSAR
Response Time	3 - 5 Sec
Pan Size (mm)	80 mm Ø
Tare Range	Full
Operating Temperature	+15°C to + 25°C
Sensitivity Drift ±	2ppm / °C
Density	Function Available
Key Sound	Yes
Weighing Chamber	240 x 190 x 265 mm
Unit	g, mg, ct, oz
Baud rate Options	1200, 2400, 4800, 9600
Interface	RS232C
Power Supply	AC 220V / 50-60 Hz
Dimension (LxWxH) mm	475 x 315 x 485
Weight	10 Kg

**SPECIFICATIONS**

★ Specifications are subject to change without notice.

Density Determination Kit for Solid &amp; Liquid sample (Optional)

Basic Economic



## Analytical Balance

**MAB201 / 301**


### Standard Accessories


- Instrument
- Draft ring
- Pan
- Power Cord
- Instruction manual

### MAB SERIES


220g / 0.0001g (0.1mg)


320g / 0.0001g (0.1mg)


 Electro Magnetic Force Compensation

 Density Determination Kit (Optional)

 Underhook Weighing

 RS232C Interface

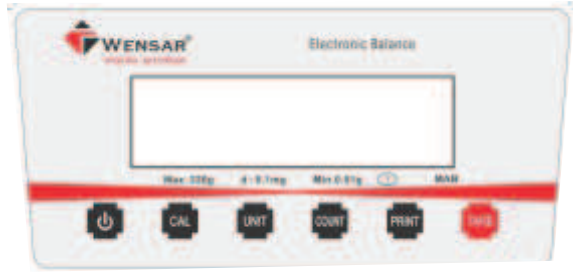
 Internal Auto Calibration

 Counting Weighing mode

 LCD display

 Multiple Weighing Units

 TARE



## Analytical Balance

HSN Code - 9016

SPECIFICATIONS	MODEL	MAB201	MAB301
	Capacity		220g
Make	WENSAR		
Readability	0.0001g ( 0.1mg )		
Repeatability ( ± )	0.0001g		
Linearity ( ± )	± 0.0003g		
Min.(Capacity)	0.01g		
Display	LCD		
Pan Size	90 mm Ø		
Response Time	4 - 6 Sec		
Calibration	Internal Calibration		
Tare Range	Full		
Operating Temperature	+15°C to +30°C		
Humidity	50 - 70% RH		
Warm up time	30 min.		
Unit	g,ct, ozt, oz, GN, dwt, lb		
Key Sound	Yes		
Weighing Chamber Height	210mm		
Baud rate	1200, 2400, 4800, 9600		
Class	I		
Interface	RS232C		
Data Output Mode	Command and continuous Output		
Power Supply	AC 220V / 50-60 Hz		
Dimension (LxWxH) mm	220 x 360 x 345mm		
Weight	9.5kg		

Density Determination Kit for Solid & Liquid sample (Optional) - Manual Calculation

★ Specifications are subject to change without notice.



### Standard Accessories

- Instrument
- Draft ring
- Pan
- Pan support
- Dust guard
- Adaptor
- User manual

**HPB SERIES - 1 mg**

## High Precision Balance

**HPB201, HPB501, & HPB1001**



Electro Magnetic Force Compensation



Density Determination



Underhook Weighing



RS232C Interface



External Calibration



Counting Weighing mode



LCD display



Percentage Weighing



Multiple Weighing Units



TARE



## High Precision Balance

HSN Code - 9016

MODEL	HPB201	HPB501	HPB1001
Capacity	220 g	520 g	1020 g
Calibration	External		Internal
Pan Size	80 mm Ø		120 mm Ø
Make	WENSAR		
Readability	0.001 g ( 1mg )		
Repeatability ( ± )	0.001 g		
Linearity ( ± )	± 0.002 g		
Min.(Capacity)	0.1 g		
Display	LCD		
Response Time	4- 5 Sec		
Tare Range	Full		
Operating Temperature	15°C to 30°C		
Density	Yes		
Unit	g,ct, ozt, oz, GN, dwt, lb		
Key Sound	Yes		
Weighing Chamber Height	195 mm		
Baudrate	1200, 2400, 4800, 9600		
Class	I		
Interface	RS232C		
Data Output Mode	Command and continuous Output		
Power Supply	AC 220V / 50-60 Hz		
Dimension (LxWxH) mm	220 x 360 x 345 mm		
Weight	10 kg		

**SPECIFICATIONS**

★ Specifications are subject to change without notice.

Density Determination Kit for solid &amp; liquid sample (Optional) - Manual Calculation



### *Salient Features*

- ◆ Based on E.M.F.C. Technology
- ◆ A built in under hook for below weighing
- ◆ Density measurement Kit (Optional)
- ◆ RS232C Interface
- ◆ Tare range upto max. Capacity of the Balance
- ◆ High Resolution, Quick Weighing, Accurate Result
- ◆ Automatic External Calibration
- ◆ Multiple Weighing Units
- ◆ S.S. Weighing Pan, Level Indicator, Adjustable Fit
- ◆ Counting Weighing Mode

## High Precision Balance

HSN Code - 9016

MODEL	HPB3000
Capacity	3000 g
Make	WENSAR
Readability	0.01 g ( 10 mg)
Repeatability ( ± )	0.01g
Linearity ( ± )	0.03g
Display	VFD ( Vacuum Fluorescent Display )
Pan Size	150 mm Ø
Response Time	3 - 4 Sec
Calibration	Automatic External
Tare Range	Full
Operating Temperature	10°C to 30°C
Interface	RS232C
Power Supply	AC 220V / 50-60 Hz
Dimension (LxWxH) mm	530 x 435 x 345
Weight (app.)	6.9kg

**SPECIFICATIONS**

★ Specifications are subject to change without notice.

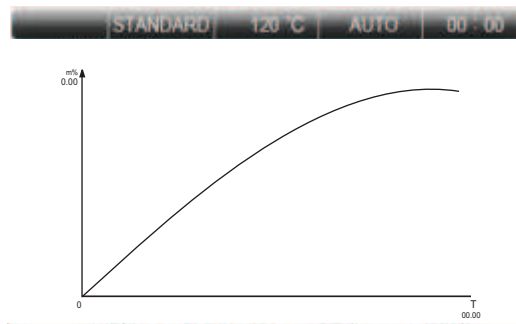


## MOISTURE ANALYZER

**PGB1MB**

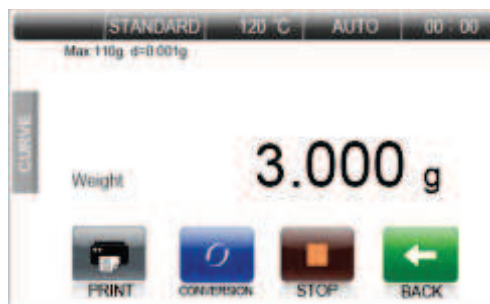
### Salient Features

- ◆ Halogen Light Heating
- ◆ Curve (Graph)
- ◆ Temperature and time can be set
- ◆ The percentage of Moisture content
- ◆ The percentage of dry residual
- ◆ Touch Screen
- ◆ Store historical setting
- ◆ Loadcell Sensor



#### MOISTURE DETERMINATION (1)

Machine Type : PGB 1MB  
 Heating Mode : STANDARD  
 Stop Mode : AUTO STOP  
 Heating Temp. : 130°C  
 Elapsed Time : 03:25  
 MW : 2.056g  
 DW : 1.933g  
 Moisture : 5.98%M  
 Date : 2017-10-17  
 Time : 08:16:14



### STANDARD ACCESSORIES

The sample pan holder,  
 Tray handle,  
 Power cord,  
 Aluminum sample pan  
 Instruction Manual

## Moisture Analyzer

HSN Code - 9016

MODEL	PGB1MB
Capacity	110g
Make	WENSAR
Readability	0.001 g ( 1mg )
Repeatability ( ± )	0.001 g
Linearity ( ± )	0.002 g
Display	Touch Screen
Pan Size	90 mm Ø
Sensor	loadcell
Calibration	Automatic External
Operating Temperature	5°C to 35°C
Heating Source	Halogen lamp
Temp. Sensor	PT - 100
Temperature Setting	40°C~199°C
Temp. Step	1°C
Time Setting	1~99 minutes
Dry Readability	0.01%
Dry Range	100.00% ~ 0.00%
Curve	Yes
Alluminium Sample PAN	Available
No. of Storage	20
Power Supply	AC 220V / 50-60 Hz
Dimension (LxWxH) mm	490 x 360 x 350 mm
Weight	7.5 kg

**SPECIFICATIONS**

★ Specifications are subject to change without notice.

0.05% For Very Dry Sample



## Moisture Analyzer

### Salient Features

- Based on E.M.F.C. Technology
- Halogen Heating System
- Temperature Range upto 200°C
- RS232C Interface
- The mode for testing Automatic, Timing, Manual.

Moisture Analyzer based on E.M.F.C sensor and its working on the principle of thermal force. From the percentage between the weight when the sample is dry and the weight when the sample is moist, we can get the value of moisture.

HSN Code - 9016

MODEL	HMB50H
Capacity	60 g
Readability	0.1 mg (0.005%)
Make	WENSAR
Display	LCD
Range of Temperature	50°C - 200°C (Interval 1°C)
Pan Size	90 mm Ø
Testing Mode	Auto / Timing / Manual
Content of Display	% Moisture, Time, Temperature, Weight
Tare Range	Full
Operating Temperature	10°C to 40°C
Time Setting	1- 120 min interval : 1min
Heating Source	Halogen Lamp
Interface	RS232C
Power Supply	AC 220V / 50-60Hz
Dimension (LxWxH) mm	330 x 200 x 155
Weight (app.)	5.5 kg

**SPECIFICATIONS**

\* 0.005% for very dry sample

★ Specifications are subject to change without notice.



## Precision Balance

**PGB200 / 301**

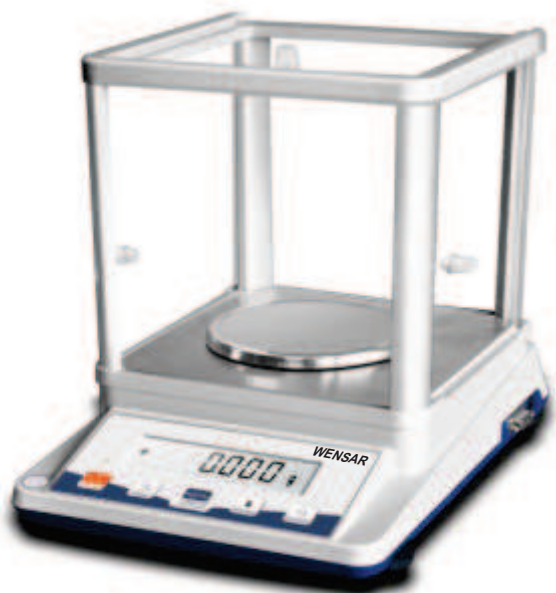
HSN Code - 9016

### Salient Features

- Auto Calibration with External Weight
- Low Battery Indicator
- Multifunction Weighing Units
- Auto Zero tracking.
- Overload Protection Design
- S.S. Weighing Pan, Level indicator, Adjustable Fit
- High Resolution, Quick Weighing, Accurate Result
- RS232C Interface
- In built rechargeable battery for PGB 200 only.

SPECIFICATIONS	MODEL	PGB200	PGB301
	Capacity	200 g	300 g
	Readability	0.001 g (1 mg)	
	Repeatability ( ± )	0.001 g	
	Linearity ( ± )	0.002 g	
	Pan Size	80 mm Ø	
	Make	WENSAR	
	Display	LCD with backlight	
	Calibration	Automatic External	
	Tare Range	Full	
	Operating Temperature	10°C to 40°C	
	Power supply	DC 9V, 500mA, AC 220V/ 50-60 Hz	
	Dimension (LxWxH) mm	415 x 405 x 295	
Weight	5.7 kg		

★ Specifications are subject to change without notice.



## Precision Balance

**PGB 220 & 321**

HSN Code - 9016

SPECIFICATIONS	MODEL	PGB220	PGB321
	Capacity	220 g	330 g
	Readability	0.001 g (1 mg)	
	Repeatability ( ± )	0.001 g	
	Linearity ( ± )	0.002 g	
	Pan Size	90 mm Ø	
	Make	WENSAR	
	Response Time	3 - 4 Sec	
	Calibration	Automatic External	
	Display	LCD with back light	
	Tare Range	Full	
	Operating Temperature	10°C to 40°C	
	Power supply	AC 220V / 50-60 Hz	
Dimension (LxWxH) mm	360 x 260 x 355		
Weight	3.5 kg		

★ Specifications are subject to change without notice.



## Precision Gold Balance PGB600 & 1000

### Salient Features

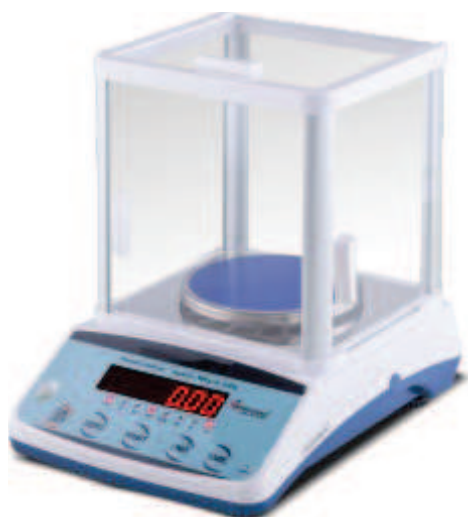
- ✦ Auto Calibration with External Weight.
- ✦ Low Battery Indicator.
- ✦ Multifunction Weighing Units.
- ✦ Auto Zero tracking.
- ✦ In built rechargeable battery for continues use.
- ✦ Overload Protection Design.
- ✦ S. S. Weighing Pan, Level indicator, Adjustable Fit.
- ✦ Front RED LED display
- ✦ Automatic switch off. option
- ✦ RS232C Interface.

HSN Code - 9016

SPECIFICATIONS	MODEL	PGB600	PGB1000
	Capacity	600g	1000g
	Readability	0.01 g (10 mg)	
	Repeatability ( ± )	0.01 g	
	Linearity ( ± )	0.02 g	
	Pan Size	120 Ø mm	
	Make	WENSAR	
	Display	RED LED	
	Calibration	Automatic External	
	Tare Range	Full	
	Operating Temperature	10°C to 40°C	
	Power Supply	AC 220V / 50-60 Hz	
	Dimension (LxWxH) mm	360 x 230 x 140	
Weight	2.5 kg		

★ Specifications are subject to change without notice.

\* Extra Display - Optional



**with Glass Windshield**  
**Precision Gold Balance**  
**PGB610**

*Salient Features*

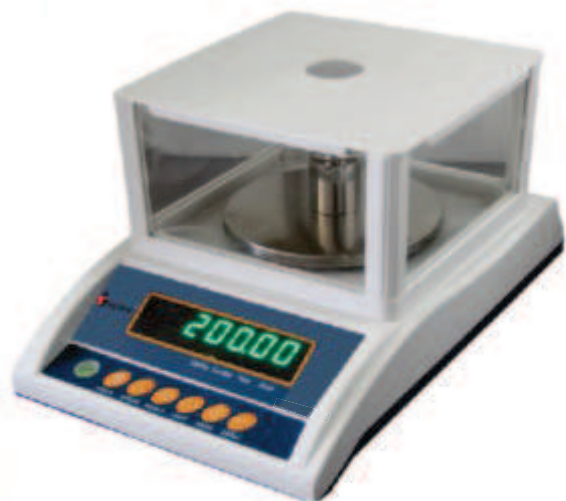
- Glass Windshield
- Auto Calibration with External Weight
- Low Battery Indicator
- Multifunction Weighing Units
- In built rechargeable battery for continues use
- Auto Zero tracking
- Overload Protection Design
- Front RED LED display
- Automatic Switch Off Option
- High precision loadcell sensor
- RS232C Interface

HSN Code - 9016

SPECIFICATIONS	MODEL	PGB610
	Capacity	600 g
	Readability	0.01 g ( 10 mg)
	Repeatability ( ± )	0.01 g
	Linearity ( ± )	0.02 g
	Pan Size	115 Ø mm
	Make	WENSAR
	Display	RED LED
	Calibration	Automatic External
	Tare Range	Full
	Operating Temperature	10°C to 40°C
	Power Supply	AC 220V / 50-60 Hz
	Dimension (LxWxH) mm	325 x 260 x 350
Weight	3.7 kg	

★ Specifications are subject to change without notice.

\* Extra Display - Optional



### Salient Features

- ◆ Green LED, Front & Back display
- ◆ Auto Calibration with External Weight.
- ◆ Low Battery Indicator.
- ◆ Multifunction Weighing Units.
- ◆ Auto Zero tracking.
- ◆ In built rechargeable battery for continues use.
- ◆ Piece counting function
- ◆ RS232C Interface.

## Precision Gold Balance PGB630

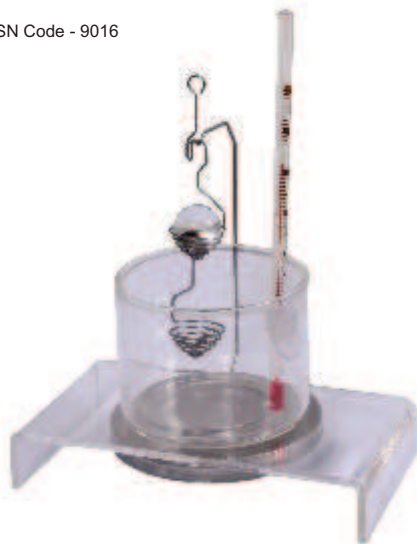
HSN Code - 9016

MODEL	PGB630
Capacity	600 g
Readability	0.01 g (10 mg)
Repeatability ( ± )	0.01 g
Linearity ( ± )	0.02 g
Pan Size	120 Ø mm
Make	WENSAR
Display	GREEN LED (Front & Back Display)
Calibration	Automatic External
Tare Range	Full
Operating Temperature	10°C to 40°C
Power Supply	AC 220V / 50-60 Hz
Dimension (LxWxH) mm	330 x 240 x 120
Weight	2.2 kg

**SPECIFICATIONS**

★ Specifications are subject to change without notice.

HSN Code - 9016



#### STANDARD ACCESSORIES

- ◆ Beaker - 1No
- ◆ Stand for Beaker - 1No.
- ◆ Density Kit Bracket - 1No
- ◆ Hanging Holder - 1No.
- ◆ Crystal Ball - 1 No.
- ◆ Tweezer - 1 No.
- ◆ Thermometer - 1 No

**WDK250**

## Density Determination Kit

Density Kit for Solid and Liquid Test

WENSAR Density Kit Suitable for all Weighing Balance, if weighing pan less than 125mm

If Weighing Balance not having Density function facility, Customer have to calculate manually.

According to the Archimedean Principle, Solid Body immersed in a liquid apparently loses as much of its own weight as the weight of the liquid it has displaced. This makes it possible to determine the unknown value. Depending on whether the body in quotient is liquid or solid.

The international system of units specifies  $\text{Kg/m}^3$  as the unit of density. However, the unit  $\text{g/cm}^3$  is better suited to lab purpose



### Salient Features

- ✦ Auto Calibration with External Weight
- ✦ Easy to read LCD Display with backlight
- ✦ Multifunction Weighing Units
- ✦ Auto Zero tracking, Low Battery Indicator
- ✦ Overload Protection Design
- ✦ S.S. Weighing Pan, Level indicator, Adjustable Fit
- ✦ High Resolution, Quick Weighing, Accurate Result
- ✦ PGB3010 with RS232C Interface
- ✦ In built rechargeable battery for continues use.

## Precision Balance

### PGB3010 & 6000

HSN Code - 9016

HSN Code - 8423

SPECIFICATIONS	MODEL	PGB3010	PGB6000
	Capacity	3000 g	6000 g
	Readability	0.01 g (10 mg)	0.1 g (100 mg)
	Repeatability ( ± )	0.01 g	0.1 g
	Linearity ( ± )	0.02 g	0.2 g
	RS232C Interface	Available	NA
	Pan Size	180 x 195 mm	
	Make	WENSAR	
	Display	LCD	
	Calibration	Automatic External	
	Tare Range	Full	
	Operating Temperature	10°C to 40°C	
	Power supply	AC 220V/ 50-60 Hz	
Dimension (LxWxH) mm	440 x 265 x 220		
Weight	4 kg		

★ Specifications are subject to change without notice.



### *Salient Features*

- Auto Calibration with External Weight
- Easy to read LCD Display with backlight
- Multifunction Weighing Units
- Auto Zero tracking, Low Battery Indicator
- Overload Protection Design
- S.S. Weighing Pan, Level indicator, Adjustable Fit
- High Resolution, Quick Weighing, Accurate Result
- In built rechargeable battery for continues use.

## Precision Balance

**PGB3110 & 6100**

HSN Code - 9016

HSN Code - 8423

SPECIFICATIONS	MODEL	PGB3110	PGB6100
	Capacity	3000 g	6000 g
	Readability	0.01 g (10 mg)	0.1 g (100 mg)
	Repeatability ( ± )	0.01 g	0.1 g
	Linearity ( ± )	0.02 g	0.2 g
	Pan Size	160 x 160 mm	
	Make	WENSAR	
	Display	LCD	
	Calibration	Automatic External	
	Tare Range	Full	
Operating Temperature	10°C to 40°C		
Power supply	AC 220V/ 50-60 Hz		
Dimension (LxWxH) mm	440 x 265 x 220		
Weight	4 kg		

★ Specifications are subject to change without notice.



## TTB20HH

### Table Top - High Precision

#### Salient Features

- ✦ Built in rechargeable battery for continues use
- ✦ Rust Proof Stainless Steel Platter
- ✦ Fast Weighing response time
- ✦ Overload Protection Design
- ✦ White LCD Front display
- ✦ Underhook & RS232C Optional

HSN Code - 8423

MODEL	TTB20HH
Capacity	20kg
Readability	0.1 g (100 mg)
Repeatability ( ± )	0.1 g
Linearity ( ± )	0.2 g
Pan Size (mm)	230 X 320
Display	LCD
Interface RS232C	Yes
Make	WENSAR
Tare Range	Full
Operating Temp.	10°C to 40°C
Power Supply	AC 220V / 50-60 Hz
Dimension (LxWxH) mm	410 x 370 x 145
Weight	5 kg

**SPECIFICATIONS**

★ Specifications are subject to change without notice.



**Platform Balance**

*Salient Features*

- ◆ Accumulation
- ◆ Animal Weighing Mode
- ◆ Up & Low limit alarm
- ◆ Hold Function option
- ◆ Low Battery indication, Power Off automatically
- ◆ Built in rechargeable battery for continues use
- ◆ Rust Proof Stainless steel platter of High Quality
- ◆ Overload Protection Design
- ◆ Back Rail support provided
- ◆ RS232C Interface

HSN Code - 8423

SPECIFICATIONS	MODEL	PFB60	PFB100	PFB300
	Capacity	60kg	100kg	300kg
	Readability	5g	10g	20g
	Repeatability ( ± )	5g	10g	20g
	Linearity ( ± )	10g	20g	40g
	Pan Size ( mm )	400 x 400		600 x 600
	Make	WENSAR		
	Display	RED LED		
	Response Time	3 - 4 Sec		
	Calibration	Automatic External		
	Tare Range	Full		
	Operating Temp.	10°C to 40°C		
	Power Supply	AC 220V / 50-60 Hz		
Dimension (LxWxH) mm	710 x 540 x 190		860 x 770 x 230	
Weight	14 kg		23 kg	

★ Specifications are subject to change without notice.

## Crane Scales



### OCS5HPE & OCS10HPE

HPE - Heat Proof Enclosure

Range	1000°C	1200°C	1400°C	1500°C
Safe Distance	1200 mm	1500 mm	1800 mm	2000 mm



### OCS5T, 10T

- Remote Control
- Aluminum alloy casing
- Hold Function
- Power Saving Function
- Low Battery Indicator
- Overload alarm



### OCS11W

- Wireless Crane Scale
- Wireless distance 200m
- Wireless Indicator with Printer
- Steel alloy casing
- Overload alarm
- Power saving mode

HSN Code - 8423

## SPECIFICATIONS

MODEL	OCS5T	OCS10T	OCS11W(Wireless)
Capacity	5 Tonne	10 Tonne	10 Tonne
Readability	2 kg	5 kg	
Repeatability	2 kg	5 kg	
Display	RED LED		LCD
Control Distance	≤ 20m		
Make	WENSAR		
Response Time	6-10 Sec		
Battery	Rechargeable Battery		
Overload Warning	110% F.S.		
Safe Overload	125% F.S.		
Operating Temperature	10°C to 40°C		
Power Supply	AC 220V / 50-60 Hz		
Dimension (LxWxH) mm	660 x 380 x 260		390 x 580 x 720
Weight	20 kg	30 kg	62 kg

★ Specifications are subject to change without notice.

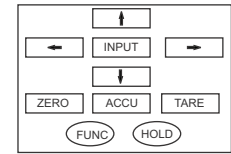
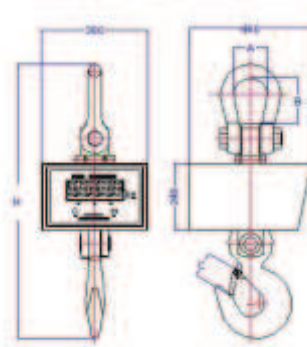
Optional : Trolley stand



**OCS1T**

**OCS20T / 30T**

## Crane Scales



- ◆ Remote Control Off Tare, Zero and Accumulation
- ◆ 40mm LED Display, Hold Function,
- ◆ Strong Alloy Aluminum of body -OCS-20T & 30T
- ◆ Rechargeable Battery

Size Model No.	A	B	C	H
OCS-20T	123	150	87	1010
OCS-30T	175	220	129	1300

HSN Code - 8423

**SPECIFICATIONS**

MODEL	OCS1T	OCS20T	OCS30T
Capacity	1 Tonne	20 Tonne	30 Tonne
Readability	0.5kg	10kg	
Repeatability	0.5kg	10kg	
Cabinet	ABS Plastic	Aluminum Alloy Body	
Display	RED LED		
Make	WENSAR		
Control Distance	≤ 10m		
Response Time	4-8 Sec		
Battery	Rechargeable Battery		
Overload Warning	110% F.S.		
Safe Overload	125% F.S.		
Operating Temperature	10°C to 40°C		
Power Supply	Adaptor using AC 220V / 50-60 Hz		
Dimension (LxWxH) mm	350 x 290 x 210	660 x 390 x 270	
Weight (app.)	3.7kg	100 kg	145 kg

★ Specifications are subject to change without notice.



## E1

### OIML Standard Weights - Class E1

HSN Code - 8423

<b>SPECIFICATION</b>	Class	E1
	Standard	OIML R111
	Material	Austenitic Stainless Steel
	Construction	Solid single piece fabrication
	Cavity	No cavity adjustment
	Density	8.00g/cm <sup>3</sup>
	Magnetic Susceptibility	<0.005
	Intensity of polarization	< 2.5 $\mu$ T
	Shape	Cylindrical with knob
	Finish	Mirror Polish
	Packing Sets Weight	Aluminum alloy box
	Packing - gram & milligram	ABS Box
	Accessories	Tweezer, Cloth, Gloves with Sets

Specification, colour, designs are subject to change without notice.

### Our Range Class E1

E1 - 1mg to 500mg - 12pcs. E1 - 1mg to 200g - 23pcs.

### Application

E1 Class weights are recommended for primary reference standard for calibration other reference standard and weights.

It cannot use in General Laboratory.

We can Provide Calibration Certificate from NABL Accredited Lab valid 3 years ( Charges applicable)



**E2**

## OIML Standard Weights - Class E2

HSN Code - 8423

<b>SPECIFICATION</b>	Class	E2
	Standard	OIML R111
	Material	316 Stainless Steel
	Construction	Solid single piece fabrication
	Cavity	No cavity adjustment
	Density	7.96g/cm <sup>3</sup>
	Magnetic Susceptibility	<0.005
	Intensity of polarization	< 8
	Shape	Cylindrical with knob
	Finish	Mirror Polish
	Packing Sets Weight	Aluminum alloy box
	Packing - gram & milligram	ABS Box
	Accessories	Tweezer, Cloth, Gloves with Sets

Specification, colour, designs are subject to change without notice.

### Our Range Class E2

E2 - 1mg to 500mg - 12pcs. E2 - 1mg to 200g - 23pcs.

E2 - 20kg, E2- 10kg, E2 - 5kg, E2 - 2kg, E2 -1kg, E2 - 500g, E2 - 200g, E2 -100g, E2- 50g, E2 - 20g to 1mg.

### Application

E2 Class weights are recommended for the calibration of micro, semi-micro & analytical balances where very high accuracy is required.

E2 Class weights also can use to calibrate F1 Class weights.

We can Provide Calibration Certificate from NABL Accredited Lab valid 3 years ( Charges applicable)

## F1



### OIML Standard Weights - Class F1

HSN Code - 8423

<b>SPECIFICATION</b>	Class	F1
	Standard	OIML R111
	Material	304 Stainless Steel
	Construction	One or two pieces of same material
	Cavity	May contain adjusting cavity
	Density	7.90g/cm <sup>3</sup>
	Magnetic Susceptibility	<0.05
	Intensity of polarization	< 25
	Shape	Cylindrical with knob
	Finish	Mirror Polish
	Packing Sets Weight	Aluminum alloy box
	Packing-kilogram, gram & milligram	ABS Box
	Accessories	Tweezer with Sets only

Specification, colour, designs are subject to change without notice.

#### Our Range Class F1

F1 - 1mg to 500mg - 12pcs. F1 - 1mg to 200g - 23pcs. F1 - 1mg to 500g - 24pcs. F1 - 1mg to 1kg - 25pcs. F1 - 1mg to 2kg - 27pcs.

F1 - 20kg, F1- 10kg, F1 - 5kg, F1 - 2kg, F1 -1kg, F1 - 500g, F1 - 200g, F1 -100g, F1 - 50g, F1 - 20g to 1mg.

#### Application

F1 Class weights are recommended for calibration High Precision, Top loading balances with readability 0.001g .

F1 Class weights also can be use calibrate F2 Class weights.

We can Provide Calibration Certificate from NABL Accredited Lab valid 2 years ( Charges applicable)



**Density Kit**



**F1 Class Weights**



**Analytical Balance**



**E2 Class Weights**



**Wire Weights**



**E1 Class Weights**



**High Precision Balance**



**Individual ABS Weights**



**Weights Lifter**



- \* All Models Demo Videos are available
- \* All Models Calibration Videos are available
- \* Comparison between 2 models available