

Analytical Instruments

- Spectrophotometers & Spectrometers
- Electrochemistry Instruments
- Chromatography Instruments
- Water Analysis Instruments
- Soil & Fertilizer Testing Instruments
- Laboratory Weighing Balances



TOPLAB INDIA PVT. LTD.

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Single Beam AAS Atomic Absorption Spectrophotometer

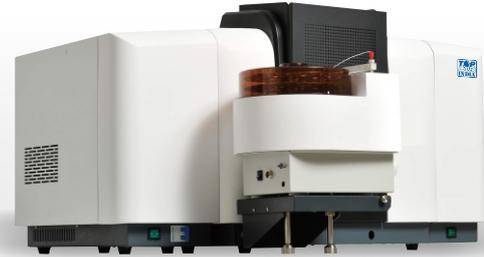
TL-2800AA series



- Single Beam AAS
- 4, 6 & 8 - Lamp Turret holder
- Optics 1800 lines/mm grating
- Wavelength Range 190 nm ~ 900 nm
- Bandwidth 0.2nm, 0.4nm, 1.0nm, 2.0nm
- Photomultiplier Tube (PMT) Detector
- Burner Head 100mm Titanium Alloy burner
- Manual Flame ignition & Gas flow control
- Automatic ignition can be used Optional
- **Applications:** Fertilizer, Soil, Water, Agriculture, Chemicals, Pharmaceutical etc.

Double Beam AAS Atomic Absorption Spectrophotometer

TL-1800AA series



- Double Beam AAS
- 6-Lamps & 8 - Lamp Turret holder
- Optics 1800 lines/mm grating
- Wavelength Range 180 nm ~ 900 nm
- Bandwidth 0.1nm, 0.2nm, 0.4nm, 1.0nm, 2.0nm
- Deuterium Lamp background correction
- Photomultiplier Tube (PMT) Detector
- Burner Head 100mm & 50mm Titanium Alloy burner
- Automatic Flame ignition & Gas flow control

Single Beam UV-Vis Spectrophotometer

TL-1500UV



- Display: Digital LCD Screen (128*64 dots)
- Optical System: Single Beam
- Wavelength Range: 190nm - 1100nm
- Bandwidth: 2.0nm
- Photometric Range: -3 to +3A, 0 to 200%, 0 to 9999C
- Wavelength Setting: Automatic
- Detector: Silicon Photodiode
- Monochromator: Blazed Holographic Grating
- Measurement Mode: %T, Abs, Conc.
- Light Source: Deuterium Lamp & Tungsten Halogen Lamp
- Output: USB interface, Software for PC (Optional)

Double Beam UV-Vis Spectrophotometer

TL-1800UV



- Display: 6 inch LCD with function keypad
- Optical System: Double Beam
- Wavelength Range: 190nm - 1100nm
- Bandwidth: 1.8nm / 1.0nm/ 0.5, 1.0, 2.0, 4.0nm
- Photometric Range: -4 to +4A, 0 to 200%, 0 to 9999C
- Wavelength Setting: Automatic
- Detector: Photomultiplier Tube (PMT)
- Monochromator: Blazed Holographic Grating
- Measurement Mode: %T, Abs, Conc., Reflectance
- Light Source: Deuterium Lamp & Tungsten Halogen Lamp
- Output: USB interface, Software for PC (Optional)

Visible Spectrophotometer

TL-1100V



- Display: 4 Digit LED
- Optical System: Single Beam
- Wavelength Range: 325nm - 1000nm
- Bandwidth: 4.0 nm
- Photometric Range: -3 to +3A, 0 to 200%T, 0 to 9999C
- Wavelength Setting: Manual
- Detector: Silicon Photodiode
- Monochromator: Blazed Holographic Grating
- Measurement Mode: %T, Abs, Conc.
- Light Source: Tungsten Halogen Lamp
- Output: USB interface

FTIR Spectrometer

TOP-3000FTIR



- Wavelength Range: 7800 ~ 375 cm⁻¹
- 100% line Tilt Range: Better than 0.5%
- Resolution: 1 cm⁻¹
- Detector: High Resolution DLATGS Detector
- Beam Splitter: KBr Coated with Ge
- Light Source: Air-Cooled IR light source
- Zn Se Crystal ATR - Universal applications
- Solid Samples Package: KBr Press, Sheet mold, Agate Motor, Microwave Oven, KBr
- Liquid Sample Package: Removable Liquid Cell & Fixed Liquid Cell
- Gas Sample Package: Gas Cell

Laboratory pH Meter

TL-300PH



- Display: Large LCD
- Measurement Range: 0.00pH ~ 14.00pH
- Accuracy: 0.01pH
- Temperature Range: 0°C ~ 100°C
- Temperature Compensation: MTC- Manual
- Calibrations Points: Up to 3-point
- Buffer Standards: pH4.00, pH6.86, pH9.18
- Input resistance: $\geq 1 \times 10^{12} \Omega$
- Electrode: Combined Glass / Plastic pH Electrode
- Power source: DC9V Power Adaptor

5-Point Calibration pH Meter

TOP-500pH



- Display: 5.7", Large backlit LCD Display
- Measurement Range: -2.000pH ~ 20.000 pH
- Resolution: 0.01pH
- Accuracy: ± 0.01 pH
- Temperature Range: -5°C ~ 110°C
- Temperature Compensation: ATC & MTC
- Calibrations Points: 5 - Point Calibration
- Data Storage Capacity: 500 results each
- Electrode: Combined Glass/Plastic pH Electrode
- Power Source: DC9V Power Adaptor

Laboratory Conductivity Meter

TL-300EC



- Display: Large LCD
- Measurement range: 0.00 μ S/cm ~ 200mS/cm
- Accuracy: $\pm 1\%$ Full
- Temperature Range: 0°C ~ 100°C
- Temperature Compensation: MTC- Manual
- Calibrations Points: up to 3-point
- Cal Standards: 84 μ S/cm, 1413 μ S/cm, 12.88mS/cm
- Cell Constant: K=0.1, 1, 10, Selectable
- Electrode: Glass/Plastic body EC Electrode
- Power source: DC9V Power Adaptor

Research Grade Conductivity / TDS Meter

TOP-500EC



- Display: 5.7", Large backlit LCD Display
- EC Range: 0.00 μ S/cm ~ 1000 mS/cm
- TDS Range: 0.00 ppm to 100 ppt
- Resolution: 0.001 μ S/cm, 0.01 ppm
- Accuracy: $\pm 1\%$ FS ± 1 digit
- Temperature Range: -5°C ~ 110°C
- Temperature Compensation: ATC & MTC
- Data Output Port: USB interface
- Electrode: EC sensor with inbuilt PT100
- Power Source: DC9V Power Adaptor

Dissolved Oxygen Meter

TL-300DO



- Display: Large LCD
- DO Range: 0 ~ 20 ppm (mg/L)
- Accuracy: ± 0.03 mg/L
- Temperature Range: 0°C ~ 40°C
- Temp. Compensation: ATC-Automatic & MTC- Manual
- Calibrations Points: up to 2-point
- Cal Standards: 0% Saturation &/Or in-air at 100%
- Response Time: Less than 30 Sec
- Sensor: Polarographic DO Sensor
- Power source: AC220V, 50/60Hz

Multi-Parameter (pH/ISE/EC/TDS) Meter

TOP-500pH/EC



- Display: 5.7", Large backlit LCD Display
- pH Range: -2.000 to 19.999 pH
- ISE Range: 1.000 e-9 to 9.999 e+9
- ISE units: mol/L, mmol/L, g/L, mg/L, μ g/L, ppm, ppb
- ORP/mV: -1999mV ~ +1999mV
- EC Range: 0.00 μ S/cm ~ 2000mS/cm
- TDS Range: 0.00 ppm to 100 ppt
- Temp. Range: -10°C ~ 110°C, Temp. Compensation: ATC & MTC
- Calibrations Points: 5 - Point Calibration
- Power Source: DC9V Power Adaptor

Multi-Parameter (pH/EC/TDS/DO) Meter



Multi-Compass

- Display: Large Five inch LCD screen
- pH Range: -2.000 to 19.99pH, ORP/mV: -1999mV ~ +1999mV
- EC Range: 0.00 μ S/cm ~ 2000mS/cm
- TDS Range: 0.00 mg/L to 100g/L
- Resistivity: 0~100 M Ω -cm, Salinity: 0~100 ppt,
- DO Range: 0.00 ~ 90 mg/L (ppm)
- Resolution: 0.01, Accuracy: \pm 0.01, Temp. Range: 0°C ~ 100°C
- Temperature Compensation: ATC & MTC
- Calibrations Points: 1, 2 or 3 - Point Calibration
- Power Source: DC5V Power Adaptor cum Charger

Portable Conductivity Meter



TOP-110EC

- Display: 3.5" LCD display
- EC Range: 0.00 μ S/cm to 100 mS/cm
- Resolution: 0.01 μ S/cm
- Accuracy: \pm 1.0% FS
- Temperature Compensation: MTC
- IP Rating : IP65 waterproof
- Power: Rechargeable Lithium battery, AC Adapter, AC240V

Portable Multi-ParaMeter

(pH/mV/ISE/EC/TDS/Res./Sal.) TOP-110Multi



- Display: 3.5" LCD display
- ISE Range: 1.000 e-9 to 9.999 e+9
- pH Range: -2.00 to 20.00 pH, mV Range: -2000.0 to 2000.0mV
- ISE units: mol/L, mmol/L, g/L, mg/L, μ g/L, ppm, ppb
- Conductivity Range: 0.000 μ S/cm to 500 mS/cm
- Resistivity Range: 5.00 Ω -cm~20.00 M Ω -cm
- TDS Range: 0.00 ppm~300ppt, Salinity Range: 0.0~80.0 ppt
- Temperature: -5 to 110 °C
- Power: Rechargeable Lithium battery, AC Adapter, AC240V

Portable pH Meter

TOP-110PH



- Display: 3.5" LCD display
- pH Range: 0.00 to 14.00pH
- pH Resolution: 0.01pH
- Calibration Points: Up to 2
- Temperature Compensation: MTC
- IP Rating : IP65 waterproof
- Power: Rechargeable Lithium battery, AC Adapter, AC240V

Portable DO Meter

TOP-110DO



- Display: 3.5" LCD display
- Sensor Type: Polarographic
- DO Range: 0.00 to 20.00 mg/L, Resolution: 0.01mg/L
- Calibration Points: Air-saturated water or zero point
- Barometric Compensation: Yes
- Data Storage: 200 results each, IP Rating: IP65 waterproof
- Power: Rechargeable Lithium battery, AC Adapter, AC240V

Pen-Type Testers (pH/EC/TDS/Sal./DO)



TL-PH-L/H
TL-EC-L/H
TL-TDS-L/H
TL-SAL-L/H
TL-DO

- Display: Digital LED display
- pH Range: 0.1 ~ 14.0pH
- EC Range: 0.00 ~ 25.00 mS / 0 ~ 5000 μ S
- TDS Range: 0.00 ppm ~ 2500ppm / 0.00 ppm ~ 9999ppm
- Salinity Range: 0.0 ~ 2500mg/L / 0.0~9999 mg/L
- DO Range: 0.0 ~ 20 mg/L
- Temperature: 0 to 40 °C
- Power: 1.5VBattery x 4pcs

Combined pH Electrodes



TL-1030 - Plastic
TL-1050 - Glass
TL-1032 - Plastic
TL-1052 - Glass

- pH Range: 0.0 ~ 14.0pH
- Calibration Points: 3 & 5 - Points
- Accuracy: ± 0.2 pH units
- Reference electrolyte: 3M KCL/ Sat. Ag/AgCl
- Shaft Length: 120mm, Shaft Diameter ϕ : 12mm
- Cable Length: 1 meter(3.3'), Coaxial
- Connector Type: BNC
- Construction: Plastic & Glass Body both available

COD Meter

TOP-200-COD



- Display: LCD Display
- Measuring Range: 0 ~ 1000 mg/L
- Ranges: 0~150 mg/l, 0~1000 mg/l (dilution > 1000 mg/l)
- Accuracy: 5 mg/L $\pm 5\%$
- Working Wavelength: 420nm ~ 610nm
- Light Source: High Efficient LED
- Cuvette Holder Size: $\phi 16$ mm
- Power Adaptor: 9VDC Power adaptor

COD Digester

TOP-160-COD



- Reactor Type: Dry temperature control device
- Number of Vial Cells: 16 vial cells with $\phi 16$ mm holes
- Programmable Temperature Range: RT +5°C ~ 160°C
- Temperature Accuracy (°C): $\pm 0.5^\circ\text{C}$ (@40°C), $\pm 1^\circ\text{C}$ (@120°C)
- Heating Time: ≤ 15 min (from 25°C to 160°C)
- Time Range: 1 min ~ 99h59min
- Heating Block: Aluminium
- Heating Block Quantity: 1Pcs x 16 holes (25 holes Optional)
- Power Requirement: AC 220V, 50/60Hz

BOD Analyzer

TOP-BOD6



- Measurement Range: 0 – 4000mg/L (Direct Reading)
- Resolution: 2 mg/L
- Display: Colour LCD Screen
- BOD Measurement : By Electronic Pressure Probe
- BOD Measurement Method: Five-day culture method
- Max. Measurement: 6 Samples
- Culture Bottle Volume: 500 ml
- Power Supply: BOD Sensor 2x3V lithium batteries
- Working Power: AC220V $\pm 10\%$ /50-60Hz

Turbidity Meter

TL-1000 NTU



- Measuring Range: 0 ~ 1000 NTU
- Resolution: 0.01, 0.1NTU
- Accuracy: $\pm 2\%$ F.S
- Calibration Points: 200 NTU, 400 NTU, 1000 NTU
- Calibration Standards: Formazin Standard
- Automatic Shut Off: Yes
- Data Storage: Yes
- Power Supply: AC 220V / 50Hz

Digital Colony Counter

TL-108CC



- Display: 3 Digit LED
- Colony Counter Range: 0 ~ 999
- Resolution: 0.01, Counting Plate Size: $\phi 110$ mm
- Illumination: Fluorescent lamp
- LED Lamp Power: 7 W
- Magnifier Multiplies: 5 – 10 times
- Colony Counter Pen: 2 Pcs
- Power Supply: DC12V Adaptor

Auto Titrator

TOP-FLASH



- Display: 4.3" LCD touch screen
- Syringe Volume: 10mL, Burette Solution (Steps): 12,000 steps
- Dispensation Accuracy: <0.2%
- Peristaltic Pump: Interchangeable pump head
- pH Range: 0-14pH, mV Range: ± 2000 mV, μ A Range: ± 10 μ A
- Method: EP, EQ, free SO₂, total SO₂ and Double SO₂
- Titrations: Potentiometric, Acid-Base, Non-aqueous, Redox, Enzymatic, Argentometric, Precipitation, Complexometry, EDTA.

Karl Fischer Titrator

TOP-KF



- Titration method: Volumetric KF Titration
- Display: 4.3 inch Large LCD Display
- Measurement Range: 10 ppm ~ 100% (Water)
- Resolution: 1ppm
- Repeatability: $\geq 99.7\%$ (10mg water)
- Burette Capacity: 20 mL
- Burette Accuracy: 1/20000
- Results Unit: ppm, mg/L, %
- Power Supply: AC 230 Volts, 50 Hz

Flame Photometer

TL-129F

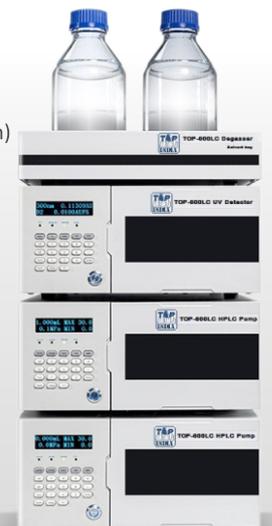


- Display: 20 x 4 backlit LCD display
- Measuring Range: Na: 0.1-100 ppm , K: 0.1-100 ppm
Ca:15-100ppm , Li: 0.5-100 ppm
- Sensitivity: 0.5ppm, Resolution: 0.1 ppm
- Reproducibility: $\pm 2\%$ FS
- Flame System: LPG & dry oil free Air
- Detector: Silicon Photodiode
- Power: AC 230 V $\pm 10\%$, 50Hz
- Air Supply: Oil Free-Air compressor

HPLC – High Performance Liquid Chromatography

TOP-600LC

- Isocratic HPLC System
- Binary Gradient HPLC System
- Quaternary Gradient HPLC System
- High Pressure Pump (0.001 ~ 9.999mL/min)
- Detectors:
 - UV-Vis Detector (190nm ~ 700nm)
 - DAD- Diode Array Detector
 - RI-Refractive Index Detector
 - ELSD- Evaporative Light-Scattering Detector
 - FD-Fluorescence Detector
- Rehodyne 7725i-Manual Injection Valve
- Auto-Sampler
- Column Oven
- Solvent tray
- Degasser
- C18 Column (250mm x 4.6mm x 5 μ m)
- LC Workstation Software



GC – Gas Chromatography

TOP-3000GC



- Display: Graphic LCD
- Capillary Inlet (Single & Dual)
- Packed Inlet (Single & Dual)
- Column Oven (RT+ 5°C ~ 400°C)
- Detectors:
 - FID - Flame Ionization Detector
 - TCD - Thermal Conductivity Detector
 - FPD - Flame Photometric Detector
 - ECD - Electron Capture Detector
 - NPD - Nitrogen-Phosphorus Detector
- PC Control: Software
- Power Supply: AC220V, 50Hz

Automatic Fraction Collector

TL-100FC



- Type: Carousel-Type
- Functions: Set Drop & Set Time
- Display: Large LCD Display
- Collected test tubes: 100 tubes
- Max capacity: 15 ml per test tube
- Range of Timed Collections: 1 Second to 24 Hrs
- Range of counting drops: 1 drop to 9999 drops
- Power Voltage: AC 220 \pm 10%, 50Hz

Microwave Synthesizer

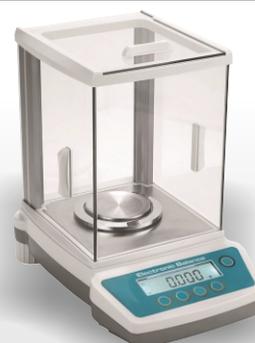
TOP-300MS



- Max. Capacity: 30 Liter
- Microwave Power: $\leq 900W$
- Microwave Frequency: $2450MHz \pm 50Hz$
- Input Power: $1350W$
- Max. Input Current: $7.8A$, Temp. Control Range: $RT \sim 250^{\circ}C$
- Temp. Sensor Type: PT-100 / K-Type
- Temp. Display: LED, Temp. Controller: PID controller
- Stirring Speed Range: $0 \sim 2000$ rpm
- Power Supply: AC $220V \pm 10\%$ 50Hz

Analytical Weighing Balance

TL-200A
TL-300A
TL-500A



- Max. Capacity: 200g/300g/500g
- Technology: Electromagnetic Sensor
- Display: Large LCD Display White backlit
- Resolution: 0.001g, Min. Weighing (g): 0.10g
- Stable Time (Sec): $\leq 8s$
- Operation Temp.: $5^{\circ}C \sim 25^{\circ}C$
- Repeatability (g): $\pm 0.002g$, Linearity (g): $\pm 0.003g$
- Optional: RS232 Interface
- Power Supply: AC $220V/50Hz$

Semi-Micro Analytical Balance

TL-1251A
TL-1282A
TL-2151A
TL-2182A



- Max. Capacity: 120/51g, 120/82g, 210/51g, 210/82g
- Readability: 0.1mg / 0.01mg
- Calibration: Internal Calibration
- Repeatability: $\pm 0.1mg / 0.05mg$, Response Time: 2.5 Sec/ 15 Sec
- Pan Size: $\varnothing 90$ mm, Display: Detachable LCD Display
- Interface: RS232
- Power Supply: AC $220V/50Hz$

Analytical Precision Balance

TL-220C



- Capacity: 220g
- Calibration: External (Internal cal. optional)
- Resolution (g): 0.0001, Min. Weighing (g): 0.0004
- Stable Time: $\leq 3S$, Display: LCD
- Operation Temp.: $5-25^{\circ}C$
- Repeatability: $\pm 0.0002g$, Linear: $\pm 0.0003g$
- Option: RS232 & RS485, Printer

Electronic Weighing Balance

TL-xxxxD



- Capacity: 100g/200g/300g/500g/1Kg/2Kg/3Kg/5Kg
- Resolution (g): 0.01g
- Technology: Electromagnetic Sensor
- Display: LCD Display with backlit
- Pan Size: Dia. 110 mm, Repeatability: 0.02g
- Operation Temp.: $5^{\circ}C \sim 25^{\circ}C$, Calibration: External
- Optional: RS232 Interface
- Power Supply: AC $220V/50Hz$

Moisture Analyzer Balance

TOP-100M



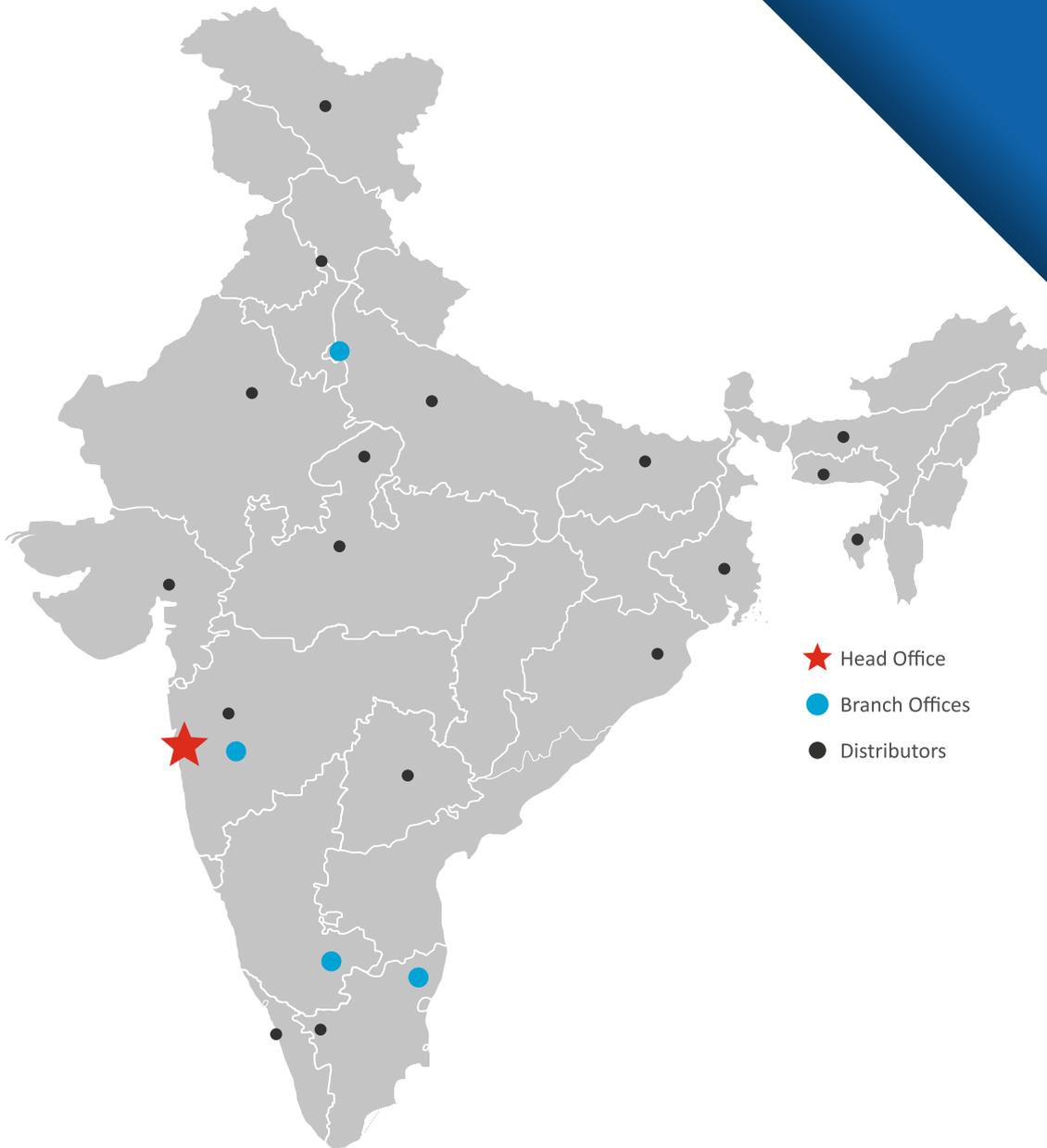
- Max. Capacity: 100g
- Display: LCD Touch Screen
- Readability: 1mg
- Moisture Range: $0\% \sim 100\%$, Heating Temp. Range: $60 \sim 160^{\circ}C$
- Temp. Control Tolerance: $\pm 1^{\circ}C$
- Heating Time Range: $0 \sim 99$ min
- Heating Elements: Halogen Lamp
- Operating Voltage: AV $220, 50HZ \pm 1HZ$, Power 350W

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