



*BEP - M300F: pH Electrode, Conductivity Cell (K=1), DO Probe, ATC Probe, Electrode Holder, pH Buffer Powders (4.01, 7.00, 10.01).*

| ITEM         | FEATURES DESCRIPTION   |
|--------------|--|
| 1            | LCD display screen.  |
| 2            | Multi-reading feature allows auto-read, timed-read and continuous-read.  |
| 3            | Automatic/Manual temperature compensation ensures accurate results.  |
| 4            | Auto-hold feature senses and locks the measurement endpoint.   |
| 5            | Over 20 Settable parameters, including the number of calibration points, stability criteria temperature unit, etc.                                     |
| 6            | Data capacity of up to 500 sets (GLP-compliant).   |
| 7            | Data can be transferred to PC or printer by USB or RS-232 communication interfaces.  |
| pH           |  |
| 1            | 1-3 points calibration with auto-buffer recognition.   |
| 2            | Selectable pH buffer groups, including NIST, DIN, GB.  |
| 3            | Automatic electrode diagnosis with pH slope and offset display.  |
| ION          |  |
| 1            | 1-5 points calibration.  |
| 2            | Selectable measurement unit, including µg/L, mg/L, g/L, mmol/L, PX, etc.   |
| 3            | Multi-measurement modes are supported, including Direct Reading mode, Standard Addition mode, Sample Addition mode and GRAN mode.                      |
| 4            | Over 10 methods are built-in, including F-, Cl-, Br-, I-, NO3-, BF4-, NH4+, K+, Na+, Ca2+, Cu2+, Pb2+, Ag+ and etc.; user-defined method is supported. |
| CONDUCTIVITY |  |
| 1            | 1-3 points calibration automatically recognizes the standard solutions.  |
| 2            | Settable parameters, including cell constant, temperature compensation coefficient and TDS factor.   |
| DO           |  |
| 1            | 1 or 2 points calibration using the air-saturated water or zero oxygen solution.   |
| 2            | Manual barometric pressure compensation.   |

| FEATURE           | TECHNICAL SPECIFICATION |   |
|-------------------|-------------------------|---|
|                   | DESCRIPTION             | CAPACITY                                      |
| pH                | RANGE                   | (-2.00~20.00)pH                               |
|                   | RESOLUTION              | 0.01pH  |
|                   | ACCURACY                | 0.01pH  |
| mV                | RANGE                   | (-1999.9-1999.9)mV                            |
|                   | RESOLUTION              | 0.1 mv  |
|                   | ACCURACY                | ±0.1%FS                                       |
| pX                | RANGE                   | (-2.00~20.00)pX                               |
|                   | RESOLUTION              | 0.01 pX                                       |
|                   | ACCURACY                | 0.01 pX                                       |
| ION CONCENTRATION | RANGE                   | (0~19990)Unit: mol/L, mmol/L, g/L, mg/L, µg/L |
|                   | RESOLUTION              | 4-digit Significant Number                    |
|                   | ACCURACY                | ±0.5%   |
| CONDUCTIVITY      | RANGE                   | 0.000µS/cm~199.9 mS/cm                        |
|                   | RESOLUTION              | 0.001µS/cm                                    |
|                   | ACCURACY                | ±1.0% (FS)                                    |
| RESISTIVITY       | RANGE                   | 5.000.Ωcm~20.00MΩ.cm                          |
|                   | RESOLUTION              | 0.01Ω.cm                                      |
|                   | ACCURACY                | ±1.0% (FS)                                    |
| TDS               | RANGE                   | 0.000 mg/L~100g/L                             |
|                   | RESOLUTION              | 0.001mg/L                                     |
|                   | ACCURACY                | ±1.0% (FS)                                    |
| SALINITY          | RANGE                   | (0.00~8.00)%                                  |
|                   | RESOLUTION              | 0.01%   |
|                   | ACCURACY                | ±0.2%   |
| DO                | RANGE                   | (0.00~19.99)mg/L                              |
|                   | RESOLUTION              | 0.01mg/L                                      |
|                   | ACCURACY                | ±0.10mg/L                                     |
| DO SATURATION     | RANGE                   | (0.0~199.9)%                                  |
|                   | RESOLUTION              | 0.1%  |
|                   | ACCURACY                | ±2.0% °C                                      |
| DO                | RANGE                   | (-5.0~105.0)                                  |
|                   | RESOLUTION              | 0.1 °C  |
|                   | ACCURACY                | ±0.2  |
| GENERAL           | POWER SUPPLY            | 100-240V, 50/60Hz                             |
|                   | DIMENSION (mm)          | 280 x 215 x 93                                |



The BEP-M310F Portable Multi-parameter Analyzer adopts a multi-purpose measurement method, which is suitable for the fields of health disease control, environmental protection, biological agriculture and forestry, water quality analysis, scientific research and institutions of higher learning.



| ITEM | FEATURES DESCRIPTION  |
|------|---|
| 1    | LCD display screen, 3.5 inches.   |
| 2    | Multi-reading feature allows auto-read, timed-read and continuous-read.           |
| 3    | Automatic/Manual temperature compensation ensures accurate results.               |
| 4    | Auto-hold feature senses and locks the measurement endpoint.                      |
| 5    | Data capacity of up to 500 sets for each parameter (GLP-compliant).               |
| 6    | Support for USB communication.  |
| 7    | Auto-power off feature effectively extends the battery service life.              |
| 8    | Reset feature automatically resumes all settings back to factory default options. |
| 9    | IP65 waterproof.  |

| pH |   |
|----|---|
| 1  | 1-5 points calibration with Standard Recognition.               |
| 2  | Selectable pH buffer groups, including NIST, DIN, GB.           |
| 3  | Automatic electrode diagnosis with pH slope and offset display. |

| ION |  |
|-----|--|
| 1   | 1-5 points calibration.  |
| 2   | Selectable measurement unit, including µg/L, mg/L, g/L, mmol/L, PX, etc.   |
| 3   | Measurement modes are supported, including Direct Reading mode, Standard Addition mode, Sample Addition mode and GRAN mode.                            |
| 4   | Over 10 methods are built-in, including F-, Cl-, Br-, I-, NO3-, BF4-, NH4+, K+, Na+, Ca2+, Cu2+, Pb2+, Ag+ and etc.; user-defined method is supported. |

| CONDUCTIVITY |   |
|--------------|---|
| 1            | 1-3 points calibration with Standard Recognition.   |
| 2            | Settable parameters, including cell constant, temperature compensation coefficient, and TDS factor. |
| 3            | Temperature compensation type (none, linear, pure water).   |

| DO |   |
|----|---|
| 1  | Support for air-saturated water or zero oxygen calibration. |
| 2  | Auto barometric pressure compensation                       |
| 3  | Manual Salinity Factor Correction                           |
| 4  | Selectable pressure unit, including kPa, mbar, Torr, Atm.   |



LCD display screen.  
Data capacity of up to 500 sets for each parameter.  
Support for USB communication.  
IP65 waterproof.



| TECHNICAL SPECIFICATION |                        |  |
|-------------------------|------------------------|--|
| FEATURE                 | DESCRIPTION            | CAPACITY   |
| PARAMETERS              |                        | pH/EC/ISE/DO/Temp.<br>(mV/ORP/pX/Resistivity/TDS/<br>Sal./DO Saturation) |
| pH                      | RANGE                  | -2.00 to 20.00pH   |
|                         | RESOLUTION             | 0.1, 0.01 pH   |
|                         | ACCURACY               | ±0.01 pH   |
|                         | CALIBRATION POINTS     | Up to 5  |
|                         | STANDARD CUSTOMIZATION | Yes  |
|                         | STANDARD RECOGNITION   | NIST, GB and DIN buffers   |
|                         | SLOPE LIMIT            | Yes  |
| mV                      | RANGE                  | -2000.0 to 2000.0 mV   |
|                         | RESOLUTION             | 0.1  |
|                         | ACCURACY               | ±0.3 mV or ±0.1%   |
| pX                      | RANGE                  | -2.00 to 20.00   |
|                         | RESOLUTION             | 0.1, 0.01 pX   |
|                         | ACCURACY               | ±0.01 pX   |
|                         | CALIBRATION POINTS     | Up to 5  |
| ISE                     | RANGE                  | 0 to 19990 unit  |
|                         | UNITS                  | mol/L, mmol/L, g/L, mg/L,<br>µg/L  |
|                         | RESOLUTION             | Up to 4 significant digits   |
|                         | ACCURACY               | ±0.5%  |
|                         | CALIBRATION POINTS     | Up to 5  |
| CONDUCTIVITY            | RANGE                  | ±1.0% (FS)   |
|                         | RESOLUTION             | 0.000 µS/cm to 500 mS/cm   |
|                         | ACCURACY               | 0.001 µS/cm minimum, various<br>with range selection                     |
|                         | REFERENCE TEMPERATURE  | ±1.0%  |
|                         | CALIBRATION POINTS     | FS 20, 25 °C   |
|                         | STANDARD RECOGNITION   | Up to 3 84µS/cm, 1413µS/cm,<br>12.88mS/cm                                |
| RESISTIVITY             | RANGE                  | 5.00 Ω·cm~20.00 MΩ·cm  |
|                         | RESOLUTION             | 0.01 Ω·cm minimum  |
|                         | ACCURACY               | ±1.0% FS   |
| TDS                     | RANGE                  | 0.00mg/L~300g/L  |
|                         | RESOLUTION             | 0.01mg/L minimum, various<br>with range selection                        |
|                         | ACCURACY               | ±1.0%  |

| TECHNICAL SPECIFICATION        |                                   |  |
|--------------------------------|-----------------------------------|--|
| FEATURE                        | DESCRIPTION                       | CAPACITY   |
| SALINITY                       | RANGE                             | (0.00~8.00)%   |
|                                | RESOLUTION                        | 0.01%  |
|                                | ACCURACY                          | ±0.2%  |
| DISSOLVED OXYGEN CONCENTRATION | RANGE                             | 0.00 to 50.00 mg/L   |
|                                | RESOLUTION                        | 0.01mg/L   |
|                                | ACCURACY                          | ±0.1mg/L   |
|                                | CALIBRATION POINTS                | Air-saturated water or zero point  |
|                                | BAROMETRIC COMPENSATION           | Yes  |
|                                | MANUAL SALINITY FACTOR CORRECTION | Yes  |
|                                | RANGE                             | (0.0 to 300.0)%  |
| SATURATION                     | RESOLUTION                        | 0.1%   |
|                                | ACCURACY                          | ±10.0%   |
|                                | RANGE                             | -5 to 110 °C, 23 to 230 °F   |
| TEMPERATURE                    | UNIT                              | °C, °F   |
|                                | RESOLUTION                        | 0.1  |
|                                | RELATIVE ACCURACY                 | ±0.2   |
|                                | MEASUREMENT                       | READING MODE   |
|                                | READING PROMPTS                   | Reading, Stable, Locked  |
|                                | TEMP. COMPENSATION                | ATC, MTC   |
| OUTPUTS                        | USB                               | PC, printer  |
|                                | PH ELECTRODE                      | BNC(Q9)  |
| INPUTS                         | DO WITH TEMP. PROBE               | 4-pin aviation connector   |
|                                | CONDUCTIVITY WITH TEMP. PROBE     | 5-pin aviation connector   |
|                                | DATA MANAGEMENT                   | DATA STORAGE   |
|                                | GLP FEATURES                      | Yes  |
| DISPLAY OPTIONS                | BACKLIGHT                         | Yes  |
|                                | AUTO SHUTDOWN                     | 300, 600, 1200, 1800, 3600 sec., off                                     |
|                                | IP RATING                         | IP65   |
|                                | DATE AND TIME                     | Yes  |
| GENERAL                        | ELECTRICITY                       | Rechargeable Lithium battery, AC Adapter, 100-240V AC input, DC5V output |
|                                | DIMENSIONS                        | 80×255×35 mm   |
|                                | WEIGHT                            | 400g   |



## BEP - M900, BEP - M901, BEP - M902, BEP - M903, BEP - M904



| MODEL    | MEASUREMENT PARAMETERS DESCRIPTION   |
|----------|--|
| BEP-M900 | pH, mV, relative mV, ion concentration, conductivity, TDS, salinity, resistivity, DO, temperature. |
| BEP-M901 | pH, mV, conductivity, TDS, temperature.  |
| BEP-M902 | pH, mV, relative mV, conductivity, TDS, salinity, resistivity, temperature.                        |
| BEP-M903 | pH, mV, relative mV, DO, temperature.  |
| BEP-M904 | Conductivity, TDS, salinity, resistivity, DO, temperature.   |

| ITEM | FEATURES DESCRIPTION  |
|------|---|
| 1    | Automatic temperature compensation ensures accurate readings over the entire range.   |
| 2    | Auto-Read function senses and locks the measurement endpoint  |
| 3    | Calibration due alarm prompts user to calibrate the meter regularly.  |
| 4    | Setup menu allows setting the number of calibration points, resolution, stability criteria, temperature unit, date and time, etc. |
| 5    | Reset function automatically resumes all settings back to the factory defaults.   |
| 6    | Expanded memory stores or recalls up to 500 data sets.  |
| 7    | USB communication interface for data transfer and timed interval readings.  |

| pH |   |
|----|---|
| 1  | Multi parameter water quality meter is equipped with a 6.5 inches backlit LCD display |
| 2  | 1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers    |
| 3  | Automatic electrode diagnosis shows the pH slope and offset                           |

| ORP |   |
|-----|---|
| 1   | 1 point offset calibration allows adjusting the displayed value to a known standard |
| 2   | Relative and absolute millivolt modes ensure the reliable ORP measurements          |

| ION CONCENTRATION |   |
|-------------------|---|
| 1                 | 2 to 5 points calibration, including the 8 concentration points to choose from. |
| 2                 | Direct ion concentration readout simplifies the measurement process.            |
| 3                 | Automatic electrode diagnosis shows the calibration points and slopes.          |
| 4                 | Selectable concentration units (ppm, mg/L, mol/L, mmol/L) and ionic valency.    |

| CONDUCTIVITY / TDS / SALINITY / RESISTIVITY |  |
|---|--|
| 1   | 1 to 5 points calibration with automatic recognition for conductivity standards.   |
| 2   | Selectable cell constant, reference temperature, TDS factor, linear and pure water compensations, seawater and practical salinity measurement modes. |
| 3   | Automatic electrode diagnosis shows the calibration points and factors   |

| DISSOLVED OXYGEN |   |
|------------------|---|
| 1                | 1 or 2 points calibration using the air-saturated water or zero oxygen solution.                  |
| 2                | Salinity and barometric pressure compensations eliminate the measurement error Ion Concentration. |

| MODEL        | ORDERING INFORMATION DESCRIPTION  |
|--------------|---|
| BEP-M900     | pH/conductivity/dissolved oxygen electrodes, temperature probe, pH buffer sachets, conductivity standard solutions, DO electrolyte solution, membrane cap, electrode holder, USB cable and power adapter. |
| BEP-M901/902 | pH/conductivity electrodes, temperature probe, pH buffer sachets, conductivity standard solutions, electrode holder, USB cable and power adapter.   |
| BEP-M903     | pH/dissolved oxygen electrodes, temperature probe, pH buffer sachets, DO electrolyte solution, membrane cap, electrode holder, USB cable and power adapter.   |
| BEP-M904     | Conductivity/dissolved oxygen electrodes, temperature probe, conductivity standard solutions, DO electrolyte solution, membrane cap, electrode holder, USB cable and power adapter.                       |

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More Information:



Versión: J2024-1

| FEATURE               | DESCRIPTION                    | TECHNICAL SPECIFICATION                                   |          |          |          |          |          |
|-----------------------|--------------------------------|---|----------|----------|----------|----------|----------|
|                       |                                | CAPACITY  | BEP-M900 | BEP-M901 | BEP-M902 | BEP-M903 | BEP-M904 |
| PH                    | RANGE                          | -2.000-20.000pH   | ✓        | ✓        | ✓        | ✓        | X        |
|                       | RESOLUTION                     | 0.001, 0.01, 0.1pH, selectable                            | ✓        | ✓        | ✓        | ✓        | X        |
|                       | ACCURACY                       | ±0.002pH  | ✓        | ✓        | ✓        | ✓        | X        |
|                       | CALIBRATION POINTS             | 1 to 5 points   | ✓        | ✓        | ✓        | ✓        | X        |
|                       | PH BUFFER OPTIONS              | USA, NIST, DIN, 2 custom buffers                          | ✓        | ✓        | ✓        | ✓        | X        |
| ORP                   | RANGE                          | ±1999.9mV   | ✓        | ✓        | ✓        | ✓        | X        |
|                       | RESOLUTION                     | 0.1, 1mV, selectable                                      | ✓        | ✓        | ✓        | ✓        | X        |
|                       | ACCURACY                       | ±0.2mV  | ✓        | ✓        | ✓        | ✓        | X        |
|                       | CALIBRATION POINTS             | 1 point   | ✓        | X        | ✓        | ✓        | X        |
| ION                   | RANGE                          | 0.001-19999 (depending on the range of ISE)               | ✓        | X        | X        | X        | X        |
|                       | RESOLUTION                     | 0.001, 0.01, 0.1, 1                                       | ✓        | X        | X        | X        | X        |
|                       | ACCURACY                       | ±0.5% F.S. (monovalent), ±1%F.S. (divalent)               | ✓        | X        | X        | X        | X        |
|                       | MEASUREMENT UNITS              | ppm, mg/L, mol/L, mmol/L                                  | ✓        | X        | X        | X        | X        |
|                       | CALIBRATION POINTS             | 2 to 5 points (0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000) | ✓        | X        | X        | X        | X        |
| CONDUCTIVITY          | RANGE                          | 0.01-20.00, 200.0, 2000µS/cm, 20.00, 200.0mS/cm           | ✓        | ✓        | ✓        | X        | ✓        |
|                       | RESOLUTION                     | 0.001, 0.01, 0.1, 1                                       | ✓        | ✓        | ✓        | X        | ✓        |
|                       | ACCURACY                       | ±0.5% F.S.  | ✓        | ✓        | ✓        | X        | ✓        |
|                       | CALIBRATION POINTS             | 1 to 5 points   | ✓        | ✓        | ✓        | X        | ✓        |
|                       | CALIBRATION SOLUTIONS          | 10µS/cm, 84µS/cm, 1413µS/cm, 12.88mS/cm, 111.8mS/cm       | ✓        | ✓        | ✓        | X        | ✓        |
|                       | TEMPERATURE COEFFICIENTE       | Linear (0.0-10.0%/°C), pure water                         | ✓        | ✓        | ✓        | X        | ✓        |
|                       | REFERENCE TEMPERATURE          | 20/25°C   | ✓        | ✓        | ✓        | X        | ✓        |
|                       | CELL COMSTANT                  | K=0.1, 1, 10 or custom                                    | ✓        | ✓        | ✓        | X        | ✓        |
| TDS                   | RANGE                          | 0-10.00, 100.0, 1000ppm, 10.00, 200.0ppt                  | ✓        | ✓        | ✓        | X        | ✓        |
|                       | RESOLUTION                     | 0.01, 0.1, 1  | ✓        | ✓        | ✓        | X        | ✓        |
|                       | ACCURACY                       | ±1% F.S.  | ✓        | ✓        | ✓        | X        | ✓        |
|                       | TDS FACTOR                     | 0.1-1.0 (default 0.5)                                     | ✓        | ✓        | ✓        | X        | ✓        |
| SALINITY              | RANGE                          | 0.00-42.00psu, 0.00-80.00ppt                              | ✓        | X        | ✓        | X        | ✓        |
|                       | RESOLUTION                     | 0.01  | ✓        | X        | ✓        | X        | ✓        |
|                       | ACCURACY                       | ±1% F.S.  | ✓        | X        | ✓        | X        | ✓        |
| RESISTIVITY           | RANGE                          | 0.00-20.00MΩ  | ✓        | X        | ✓        | X        | ✓        |
|                       | RESOLUTION                     | 0.01  | ✓        | X        | ✓        | X        | ✓        |
|                       | ACCURACY                       | ±1% F.S.  | ✓        | X        | ✓        | X        | ✓        |
| DO                    | RANGE                          | 0.00-20.00mg/L, 0.0-200.0% saturation                     | ✓        | X        | X        | ✓        | ✓        |
|                       | RESOLUTION                     | 0.01mg/L, 0.1%  | ✓        | X        | X        | ✓        | ✓        |
|                       | ACCURACY                       | ±0.2mg/L, ±2.0%   | ✓        | X        | X        | ✓        | ✓        |
|                       | CALIBRATION POINTS             | 1 or 2 points   | ✓        | X        | X        | ✓        | ✓        |
|                       | BAROMETRIC PRESSURE CORRECTION | 60.0-112.5kPa/450-850mmHg, manual                         | ✓        | X        | X        | ✓        | ✓        |
|                       | SALINITY CORRECTION            | 0.0-50.0g/L, manual                                       | ✓        | X        | X        | ✓        | ✓        |
| GENERAL SPECIFICATION | TEMPERATURE COMPENSATION       | 0-100°C/32-212°F, manual or automatic                     | ✓        | ✓        | ✓        | ✓        | ✓        |
|                       | MEMORY                         | 500 data sets, USB communication interface                | ✓        | ✓        | ✓        | ✓        | ✓        |
|                       | POWER REQUIREMENTS             | DC5V power adapter  | ✓        | ✓        | ✓        | ✓        | ✓        |
|                       | DIMENSIONS AND WEIGHT          | 210(L)×188(W)×60(H)mm, 1.5kg                              | ✓        | ✓        | ✓        | ✓        | ✓        |

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| ITEM | FEATURES DESCRIPTION  |
|------|---|
| 1    | High-performance portable turbidity meter meets the design criteria in ISO 7027.            |
| 2    | 2 to 5 points calibration using the Formazin Standards.                                     |
| 3    | Selectable 4 turbidity units, including the NTU, FNU, EBC and ASBC.                         |
| 4    | Single measurement mode automatically senses and locks a stable reading.                    |
| 5    | Continuous measurement mode can be used for indexing or matching the sample vials.          |
| 6    | Auto-Power-Off effectively conserves battery life.  |
| 7    | Setup menu allows setting the number of calibration points, resolution, date and time, etc. |
| 8    | Reset function automatically resumes all settings back to the factory defaults.             |
| 9    | Expanded memory stores or recalls up to 100 data sets                                       |
| 10   | USB communication interface for data transfer or connecting a power adapter to meter.       |

*BEP-TB100: Meter, turbidity standards (0.02, 200, 500, 1000 NTU), sample vials, lint-free cloth and carrying case.*

| FEATURE              | TECHNICAL SPECIFICATION  |   |
|----------------------|--------------------------|---|
|                      | DESCRIPTION              | CAPACITY  |
| TURBIDITY            | PRINCIPLE                | ISO 7027 nephelometric method (90°)                     |
|                      | RANGE                    | 0-1100NTU, 0-275 EBC, 0-9999ASBC                        |
|                      | RESOLUTION               | 0.01 (0-99NTU), 0.1 (100-999NTU), 1 (1000-1100NTU)      |
|                      | ACCURACY                 | ±2% of reading (0-500NTU), ±3% of reading (501-1100NTU) |
|                      | CALIBRATION POINTS       | 2 to 5 points   |
|                      | CALIBRATION STANDARDS    | 0.02, 10, 200, 500, 1000NTU                             |
| OTHER SPECIFICATIONS | LIGHT SOURCE             | Infrared-emitting diode (850nm wavelength)              |
|                      | DETECTOR                 | Silicon photo diode                                     |
|                      | STRAY LIGHT              | <0.02 NTU   |
|                      | SAMPLE VIAL              | 60(H)× 25 (Dia.)mm                                      |
|                      | SAMPLE VOLUME            | 30mL  |
|                      | MEMORY                   | 100 data sets   |
|                      | COMMUNICATION INTERFACE  | USB   |
|                      | OPERATING TEMPERATURE    | 0-50  |
|                      | DISPLAY                  | Custom LCD (60×40mm)                                    |
|                      | POWER REQUIREMENTS       | 3×1.5V AA batteries or DC5V power adapter               |
| DIMENSIONS           | 180 (L)× 85 (W)×70 (H)mm |   |
| WEIGHT               | 300g                     |   |





## MGS - F



### MGS - F FEATURES

| ITEM | DESCRIPTION  |
|------|--|
| 1    | With excellent stirring functionality, the compact shape of MGS-F takes less bench space and makes storage easier. |
| 2    | A wide range of speed from 15 to 1500rpm.  |
| 3    | Automatic reverse rotation for excellent mixing.   |
| 4    | Protection class (IP65).   |
| 5    | PET top provides excellent chemical resistance.  |
| 6    | Ultra silence and vibration-free.  |

### TECHNICAL SPECIFICATION

| ITEM | DESCRIPTION                                  | CAPACITY                 |
|------|--|--------------------------|
| 1    | WORK PLATE DIMENSION                         | φ90mm                    |
| 2    | WORK PLATE MATERIAL                          | PET                      |
| 3    | MOTOR TYPE                                   | Motorless                |
| 4    | STIRRING POSITIONS                           | 1                        |
| 5    | MAX. STIRRING QUANTITY [H <sub>2</sub> O]    | 0.8 L                    |
| 6    | MAX. MAGNETIC BAR [LENGTH]                   | 40 mm                    |
| 7    | SPEED RANGE                                  | 15-1500rpm               |
| 8    | SPEED SETTING                                | button                   |
| 9    | PROTECTION CLASS                             | IP65                     |
| 10   | MOTOR OUTPUT POWER                           | 3 W                      |
| 11   | POWER  | 5 W                      |
| 12   | VOLTAGE                                      | 100-120/200-240V,50/60Hz |
| 13   | DIMENSION [W×D×H]                            | 175×120×15mm             |
| 14   | WEIGHT                                       | 0.3 kg                   |
| 15   | PERMISSIBLE AMBIENT TEMPERATURE AND HUMIDITY | 5-40°C, 80%RH            |

## MGS - EcoR



### MGS - EcoR FEATURES

| ITEM | DESCRIPTION  |
|------|--|
| 1    | MGS-EcoR is a magnetic stirrer customized for liquid mixing, suitable for chemical analysis, biology reagent mixing, regular laboratory experiments and liquid handling. |
| 2    | Maintenance free brushless DC motor.   |
| 3    | Rare earth magnets give powerful stirring.   |
| 4    | Stepless speed regulation 300-2000rpm.   |
| 5    | Ultra silence and vibration-free design.   |
| 6    | PET top provides excellent chemical resistance.  |
| 7    | Shaft can be fitted with a PH sensor or sensors for other purposes.  |

### TECHNICAL SPECIFICATION

| ITEM | DESCRIPTION                                  | CAPACITY                 |
|------|--|--------------------------|
| 1    | WORK PLATE DIMENSION                         | φ120mm                   |
| 2    | WORK PLATE MATERIAL                          | PET                      |
| 3    | MOTOR TYPE                                   | Brushless DC motor       |
| 4    | STIRRING POSITIONS                           | 1                        |
| 5    | MAX. STIRRING QUANTITY [H <sub>2</sub> O]    | 1.5 L                    |
| 6    | MAX. MAGNETIC BAR [LENGTH]                   | 40 mm                    |
| 7    | SPEED RANGE                                  | 300-2000rpm              |
| 8    | SPEED SETTING                                | scale                    |
| 9    | PROTECTION CLASS                             | IP21                     |
| 10   | MOTOR OUTPUT POWER                           | 1.2 W                    |
| 11   | POWER  | 7.2 W                    |
| 12   | VOLTAGE                                      | 100-120/200-240V,50/60Hz |
| 13   | DIMENSION [W×D×H]                            | 150×145×50mm             |
| 14   | WEIGHT                                       | 0.3 kg                   |
| 15   | PERMISSIBLE AMBIENT TEMPERATURE AND HUMIDITY | 5-40°C, 80%RH            |



## MGS - Mini2, MGS - Mini3

MGS - Mini2

MGS - Mini3



| ITEM | PRODUCT DESCRIPTION DESCRIPTION                                 |
|------|---|
| 1    | Shell is all plastic material ( ABS ), lightweight and durable. |
| 2    | Mixing smoothly and fast, stirring speed Stepless adjustable.   |
| 3    | MGS-Mini2 : with LED light                                      |
| 4    | MGS-Mini3 : without LED light                                   |

| FEATURE       | TECHNICAL SPECIFICATION DESCRIPTION | CAPACITY                    |               |
|---------------|-------------------------------------|-----------------------------|---------------|
|               |                                     | MGS-MINI2                   | MGS-MINI3     |
| MODE          |                                     | With light                  | Without light |
| FUNCTION      | MAX. VOLUME                         | 1000 ml                     |               |
|               | SPEED                               | 100-500 or 100-2000 [r.p.m] |               |
|               | WORKING TIME                        | Continuous                  |               |
| STRUCTURE     | MINIMUM REVOLUTION                  | 100 [r.p.m]                 |               |
|               | EXTERIOR                            | Plastic                     |               |
|               | PLATE SIZE                          | 120mm                       |               |
|               | DRIVING MODE                        | Motor                       |               |
| CONTROLLER    | MOTOR POWER                         | 0.01kW                      |               |
|               | CONTINUOUS OPERATION                | Yes                         |               |
|               | SETTING MODE                        | Scale                       |               |
|               | SPEED DISPLAY MODE                  | Scale                       |               |
|               | TIMER                               | No                          |               |
|               | OPERATION FUNCTION                  | No                          |               |
| SPECIFICATION | SPEED & TEMP. SENSOR                | No                          |               |
|               | EXTERIOR SIZE (W×L×H)               | ϕ 138×60 mm                 |               |
|               | PACKING SIZE (W×L×H)                | 210×170×88 mm               |               |
|               | PLATE SIZE                          | ϕ 128 mm                    |               |
|               | POWER SUPPLY                        | 100V-240V                   |               |
|               | CURRENT RATING                      | 100V-240V                   |               |
|               | NW / GW                             | 0.6/0.7                     |               |

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More Information:



Versión: J2024-1





### CON-OL650: Controller, IE-50MT industrial conductivity electrode

| ITEM | FEATURES DESCRIPTION   |
|------|--|
| 1    | 1 to 3 points calibration with automatic recognition for conductivity standards.                                   |
| 2    | Selectable cell constant, temperature coefficient and TDS conversion factor.                                       |
| 3    | Automatic temperature compensation ensures accurate readings over the entire range.                                |
| 4    | Setup menu allows setting the number of calibration points, alarm limits, hysteresis value, 4 to 20mA output, etc. |
| 5    | Reset function automatically resumes all settings back to the factory defaults.                                    |

| MODEL   | OPTIONAL CONDUCTIVITY ELECTRODES DESCRIPTION       |
|---------|--|
| IE-50LT | Suitable for measuring the pure water (< 10µS/cm). |
| IE-50MT | Suitable for general purpose applications.         |
| IE-50HT | Suitable for measuring the seawater (> 20mS/cm).   |

| FEATURE              | TECHNICAL SPECIFICATION  |  |
|----------------------|--------------------------|--|
|                      | DESCRIPTION              | CAPACITY   |
| CONDUCTIVITY         | RANGE                    | 0.01-20.00, 200.0, 2000µS/cm, 20.00,                       |
|                      | RESOLUTION               | 0.001, 0.01, 0.1, 1  |
|                      | ACCURACY                 | ±1% F.S.   |
| TDS                  | CALIBRATION POINTS       | 1 to 3 points (84µS/cm, 1413µS/cm, 12.88mS/cm, 111.8mS/cm) |
|                      | RANGE                    | 0-10.00, 100.0, 1000ppm, 10.00, 200.0ppt                   |
|                      | RESOLUTION               | 0.01, 0.1, 1   |
|                      | ACCURACY                 | ±1% F.S.   |
| TEMPERATURE          | TDS FACTOR               | 0.1-1.0 (default 0.5)                                      |
|                      | RANGE                    | 0-100°C/32-212° F  |
|                      | RESOLUTION               | 0.1°C/0.1°F  |
|                      | ACCURACY                 | ±1°C/±1.8°F  |
| COMMUNICATION        | OFFSET CALIBRATION       | 1 point, reading ±10°C                                     |
|                      | SIGNAL OUTPUT            | 4-20mA   |
|                      | LOAD                     | Max. 500Ω  |
|                      | LOW OR HIGH ALARM        | 0.02µS/cm-20.0mS/cm, selectable                            |
|                      | COMMUNICATION INTERFACE  | RS485  |
| OTHER SPECIFICATIONS | CONNECTION TERMINALS     | Detachable screw terminals                                 |
|                      | TEMPERATURE COMPENSATION | 0-100°C, automatic   |
|                      | ENVIROMENTAL CONDITIONS  | Ambient temperature <60°C, relative                        |
|                      | POWER REQUIREMENTS       | DC24V  |
|                      | DIMENSIONS               | 96(L)× 96 (W)×75(H)mm                                      |
| WEIGHT               | 350g                     |  |





| ITEM | FEATURES DESCRIPTION   |
|------|--|
| 1    | 1 to 3 points calibration with auto-buffer recognition.  |
| 2    | Selectable pH buffer set, including the USA and NIST options .   |
| 3    | Automatic temperature compensation ensures accurate readings over the entire range.                                |
| 4    | Automatic electrode diagnosis helps the user decide whether to replace the sensor.                                 |
| 5    | Setup menu allows setting the number of calibration points, alarm limits, hysteresis value, 4 to 20mA output, etc. |
| 6    | Reset function automatically resumes all settings back to the factory defaults.                                    |

| TECHNICAL SPECIFICATION |                          |  |
|-------------------------|--------------------------|--|
| FEATURE                 | DESCRIPTION              | CAPACITY                                   |
| pH                      | RANGE                    | -1.00-15.00pH                              |
|                         | RESOLUTION               | 0.01pH                                     |
|                         | ACCURACY                 | ±0.01pH                                    |
|                         | CALIBRATION POINTS       | 1 to 3 points                              |
| mV                      | PH BUFFER OPTIONS        | USA(4.01/7.00/10.01), NIST(4.01/6.86/9.18) |
|                         | RANGE                    | ±1000mV                                    |
| TEMPERATURE             | RESOLUTION               | 1mV  |
|                         | ACCURACY                 | ±1mV                                       |
|                         | RANGE                    | 0-100°C / 32-212°F                         |
|                         | RESOLUTION               | 0.1°C / 0.1°F                              |
| COMMUNICATION           | ACCURACY                 | ±1°C / ±1.8°F                              |
|                         | OFFSET CALIBRATION       | 1 point, reading ±10°C                     |
|                         | SIGNAL OUTPUT            | 4-20mA                                     |
| OTHER SPECIFICATIONS    | LOAD                     | Max. 500Ω                                  |
|                         | LOW OR HIGH ALARM        | 0.00-14.00pH, selectable                   |
|                         | COMMUNICATION INTERFACE  | RS485                                      |
|                         | CONNECTION TERMINALS     | Detachable screw terminals                 |
| OTHER SPECIFICATIONS    | TEMPERATURE COMPENSATION | 0-100°C, automatic                         |
|                         | ENVIROMENTAL CONDITIONS  | Ambient temperature <60°C, relative        |
|                         | POWER REQUIREMENTS       | DC24v                                      |
|                         | DIMENSIONS               | 96(L)× 96 (W)×75(H)mm                      |
| WEIGHT                  | 350g                     |  |

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More Information:



Versión: J2024-1



*Related Products: Hand-held Refractometer / Digital Fruit Sclerometer / Fruit Sclerometer.*

### TECHNICAL SPECIFICATION

| ITEM | DESCRIPTION              | CAPACITY   |           |
|------|--------------------------|--|-----------|
|      |                          | BRFR - 45  | BRFR - 92 |
| 1    | MEASURING RANGE          | 0 -45%   | 85 - 92%  |
| 2    | RESOLUTION               | Sugar ( Brix ) 0.1%<br>temperature 0.1° C          |           |
| 3    | ACCURACY                 | Sugar ( Brix ) ± 0.2%<br>temperature ± 0.5° C      |           |
| 4    | TEMPERATURE COMPENSATION | 9.9° C-99.9° C(automatic temperature compensation) |           |
| 5    | SAMPLE VOLUME            | 0.3 ml   |           |
| 6    | RESPOND TIME             | 3 s  |           |
| 7    | POWER SUPPLY             | AAA*2  |           |
| 8    | BATTERY LIFE             | About 8000 times                                   |           |

### CHARACTERISTICS

| ITEM | DESCRIPTION   |
|------|---|
| 1    | Small and portable, user-friendly.  |
| 2    | 2AAA batteries, can accurately test anytime and anywhere.   |
| 3    | Touch key, comfortable and beautiful.   |
| 4    | Special designed sample place, avoid sample spilling, easy to clean.  |
| 5    | Cannot only test the sugar content but also test the temperature of measured stuffs, automatic temperature      |
| 6    | Fast measuring speed, measuring just 3s once.   |
| 7    | Wide measuring range, suitable for almost any liquid measurement such as fruit juice, food and drink and so on. |
| 8    | Display mode: large LCD display.  |



## PIPE-T, PIPE-T8, PIPE-T12, PIPE-TF

| FEATURES (SINGLE CHANNEL & MULTI-CHANNEL) |   |
|---|---|
| ITEM                                      | DESCRIPTION   |
| 1   | Pipettes cover a volume range from 0.1µL to 10mL.           |
| 2   | Ergonomic design provides excellent operating experience.   |
| 3   | Large display window allows for easy volume identification. |
| 4   | Easy calibration and maintenance.                           |
| 5   | Online calibration is available.                            |

| FEATURES (MULTI-CHANNEL) |   |
|--------------------------|---|
| ITEM                     | DESCRIPTION   |
| 1                        | PIPE-T8 and PIPE-T12 channel pipettes are appropriate for 96 well plates        |
| 2                        | Dispensing head rotates for effortless pipetting convenience.                   |
| 3                        | Individual piston and tip cone assemblies allowing easy repair and maintenance. |
| 4                        | Compound material-made tip cone secures high sealing performance.               |
| 5                        | Compatible with most universal tip brands.                                      |
| 6                        | Online calibration is available.  |



PIPE - T



PIPE - T8



PIPE - T12



PIPE - TF

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## PIPE-T, PIPE-T8, PIPE-T12, PIPE-TF

| TECHNICAL SPECIFICATION<br>PIPE-T SINGLE-CHANNEL ADJUSTABLE VOLUME PIPETTES |           |             |                  |        |                   |        |
|---|-----------|-------------|------------------|--------|-------------------|--------|
| VOLUME RANGE  | INCREMENT | TEST VOLUME | (ACCURACY ERROR) |        | (PRECISION ERROR) |        |
|   |           |             | %                | µL     | %                 | µL     |
| 0.1-2.5µL   | 0.05µL    | 2.5µL       | 2.50%            | 0.0625 | 2.00%             | 0.05   |
|   |           | 1.25µL      | 3.00%            | 0.0375 | 3.00%             | 0.0375 |
|   |           | 0.25µL      | 12.00%           | 0.03   | 6.00%             | 0.015  |
| 0.5-10µL  | 0.1µL     | 10µL        | 1.00%            | 0.1    | 0.80%             | 0.08   |
|   |           | 5µL         | 1.50%            | 0.075  | 1.50%             | 0.075  |
|   |           | 1µL         | 2.50%            | 0.025  | 1.50%             | 0.015  |
| 2-20µL  | 0.5µL     | 20µL        | 0.90%            | 0.18   | 0.40%             | 0.08   |
|   |           | 10µL        | 1.20%            | 0.12   | 1.00%             | 0.1    |
|   |           | 2µL         | 3.00%            | 0.06   | 2.00%             | 0.04   |
| 5-50µL  | 0.5µL     | 50µL        | 0.60%            | 0.3    | 0.30%             | 0.15   |
|   |           | 25µL        | 0.90%            | 0.225  | 0.60%             | 0.15   |
|   |           | 5µL         | 2.00%            | 0.1    | 2.00%             | 0.1    |
| 10-100µL  | 1µL       | 100µL       | 0.80%            | 0.8    | 0.15%             | 0.15   |
|   |           | 50µL        | 1.00%            | 0.5    | 0.40%             | 0.2    |
|   |           | 10µL        | 3.00%            | 0.3    | 1.50%             | 0.15   |
| 20-200µL  | 1µL       | 200µL       | 0.60%            | 1.2    | 0.15%             | 0.3    |
|   |           | 100µL       | 0.80%            | 0.8    | 0.30%             | 0.3    |
|   |           | 20µL        | 3.00%            | 0.6    | 1.00%             | 0.2    |
| 50-200µL  | 1µL       | 200µL       | 0.60%            | 1.2    | 0.15%             | 0.3    |
|   |           | 100µL       | 0.80%            | 0.8    | 0.30%             | 0.3    |
|   |           | 50µL        | 1.00%            | 0.5    | 0.40%             | 0.2    |
| 100-1000µL  | 5µL       | 1000µL      | 0.60%            | 6      | 0.20%             | 2      |
|   |           | 500µL       | 0.70%            | 3.5    | 0.25%             | 1.25   |
|   |           | 100µL       | 2.00%            | 2      | 0.70%             | 0.7    |
| 200-1000µL  | 5µL       | 1000µL      | 0.60%            | 6      | 0.20%             | 2      |
|   |           | 500µL       | 0.70%            | 3.5    | 0.25%             | 1.25   |
|   |           | 200µL       | 0.90%            | 1.8    | 0.30%             | 0.6    |
| 1000-5000µL   | 50µL      | 5000µL      | 0.50%            | 25     | 0.15%             | 7.5    |
|   |           | 2500µL      | 0.60%            | 15     | 0.30%             | 7.5    |
|   |           | 1000µL      | 0.70%            | 7      | 0.30%             | 3      |
| 2-10mL  | 0.1mL     | 10mL        | 0.60%            | 60     | 0.20%             | 20     |
|   |           | 5mL         | 1.20%            | 60     | 0.30%             | 15     |
|   |           | 2mL         | 3.00%            | 60     | 0.60%             | 12     |

| TECHNICAL SPECIFICATION<br>PIPE-T8-CHANNEL ADJUSTABLE VOLUME PIPETTES |           |             |                  |       |                   |       |
|---|-----------|-------------|------------------|-------|-------------------|-------|
| VOLUME RANGE  | INCREMENT | TEST VOLUME | (ACCURACY ERROR) |       | (PRECISION ERROR) |       |
|   |           |             | %                | µL    | %                 | µL    |
| 0.5-10µL  | 0.1µL     | 10µL        | 1.50%            | 0.15  | 1.50%             | 0.15  |
|   |           | 5µL         | 2.50%            | 0.125 | 2.50%             | 0.125 |
|   |           | 1µL         | 4.00%            | 0.04  | 4.00%             | 0.04  |
| 5-50µL  | 0.5µL     | 50µL        | 1.00%            | 0.5   | 0.50%             | 0.25  |
|   |           | 25µL        | 1.50%            | 0.375 | 1.00%             | 0.25  |
|   |           | 5µL         | 3.00%            | 0.15  | 2.00%             | 0.1   |
| 50-300µL  | 5µL       | 300µL       | 0.70%            | 2.1   | 0.25%             | 0.75  |
|   |           | 150µL       | 1.00%            | 1.5   | 0.50%             | 0.75  |
|   |           | 50µL        | 1.50%            | 0.75  | 0.80%             | 0.4   |

| TECHNICAL SPECIFICATION<br>PIPE-T12-CHANNEL ADJUSTABLE VOLUME PIPETTES |           |             |                  |       |                   |       |
|--|-----------|-------------|------------------|-------|-------------------|-------|
| VOLUME RANGE   | INCREMENT | TEST VOLUME | (ACCURACY ERROR) |       | (PRECISION ERROR) |       |
|  |           |             | %                | µL    | %                 | µL    |
| 0.5-10µL   | 0.1µL     | 10µL        | 1.50%            | 0.15  | 1.50%             | 0.15  |
|  |           | 5µL         | 2.50%            | 0.125 | 2.50%             | 0.125 |
|  |           | 1µL         | 4.00%            | 0.04  | 4.00%             | 0.04  |
| 5-50µL   | 0.5µL     | 50µL        | 1.00%            | 0.5   | 0.50%             | 0.25  |
|  |           | 25µL        | 1.50%            | 0.375 | 1.00%             | 0.25  |
|  |           | 5µL         | 3.00%            | 0.15  | 2.00%             | 0.1   |
| 50-300µL   | 5µL       | 300µL       | 0.70%            | 2.1   | 0.25%             | 0.75  |
|  |           | 150µL       | 1.00%            | 1.5   | 0.50%             | 0.75  |
|  |           | 50µL        | 1.50%            | 0.75  | 0.80%             | 0.4   |

| TECHNICAL SPECIFICATION<br>PIPE-TF-FIXED VOLUME PIPETTE |           |             |                  |       |                   |       |
|---|-----------|-------------|------------------|-------|-------------------|-------|
| VOLUME RANGE  | INCREMENT | TEST VOLUME | (ACCURACY ERROR) |       | (PRECISION ERROR) |       |
|   |           |             | %                | µL    | %                 | µL    |
| 5µL   | -         | 5µL         | 1.3%             | 0.065 | 1.2%              | 0.06  |
| 10µL  | -         | 10µL        | 0.8%             | 0.08  | 0.8%              | 0.08  |
| 20µL  | -         | 20µL        | 0.6%             | 0.12  | 0.5%              | 0.1   |
| 25µL  | -         | 25µL        | 0.5%             | 0.125 | 0.3%              | 0.075 |
| 50µL  | -         | 50µL        | 0.5%             | 0.25  | 0.3%              | 0.15  |
| 100µL   | -         | 100µL       | 0.5%             | 0.5   | 0.3%              | 0.3   |
| 200µL   | -         | 200µL       | 0.4%             | 0.8   | 0.2%              | 0.4   |
| 250µL   | -         | 250µL       | 0.4%             | 1.0   | 0.2%              | 0.5   |
| 500µL   | -         | 500µL       | 0.3%             | 1.5   | 0.2%              | 1.0   |
| 1000µL  | -         | 1000µL      | 0.3%             | 3.0   | 0.2%              | 2.0   |
| 2000µL  | -         | 2000µL      | 0.3%             | 6.0   | 0.15%             | 3.0   |
| 5000µL  | -         | 5000µL      | 0.3%             | 15    | 0.15%             | 7.5   |

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## PIPE-MP, PIPE-MP8, PIPE-MP12, PIPE-MPF

| FEATURES (SINGLE CHANNEL & MULTI-CHANNEL) |   |
|---|---|
| ITEM                                      | DESCRIPTION   |
| 1   | Fully autoclavable.                                       |
| 2   | Ergonomic design provides excellent operating experience. |
| 3   | Easy-to-read volume display.                              |
| 4   | The pipettes cover the volume range from 0.1µL to 5mL.    |
| 5   | Easy calibration and maintenance.                         |
| 6   | Manufactured from innovative materials.                   |
| 7   | Online calibration is available.                          |

| FEATURES (MULTI-CHANNEL) |  |
|--------------------------|--|
| ITEM                     | DESCRIPTION  |
| 1                        | Dispensing head rotates for effortless pipetting convenience.                  |
| 2                        | Individual piston and tip cone assembly allow for easy repair and maintenance. |
| 3                        | Compound material-made tip cone secures high sealing performance.              |
| 4                        | Compatible with most universal tip brands.                                     |
| 5                        | Online calibration is available.   |



PIPE - MP



PIPE - MP8



PIPE - MP12



PIPE - MPF

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Versión: J2024-1



## PIPE-MP, PIPE-MP8, PIPE-MP12, PIPE-MPF

| TECHNICAL SPECIFICATION<br>PIPE-MP SINGLE-CHANNEL ADJUSTABLE VOLUME PIPETTES |           |             |                  |        |                   |        |
|--|-----------|-------------|------------------|--------|-------------------|--------|
| VOLUME RANGE   | INCREMENT | TEST VOLUME | (ACCURACY ERROR) |        | (PRECISION ERROR) |        |
|  |           |             | %                | µL     | %                 | µL     |
| 0.1-2.5µL  | 0.05µL    | 2.5µL       | 2.50%            | 0.0625 | 2.00%             | 0.05   |
|  |           | 1.25µL      | 3.00%            | 0.0375 | 3.00%             | 0.0375 |
|  |           | 0.25µL      | 12.00%           | 0.03   | 6.00%             | 0.015  |
| 0.5-10µL   | 0.1µL     | 10µL        | 1.00%            | 0.1    | 0.80%             | 0.08   |
|  |           | 5µL         | 1.50%            | 0.075  | 1.50%             | 0.075  |
|  |           | 1µL         | 2.50%            | 0.025  | 1.50%             | 0.015  |
| 2-20µL   | 0.5µL     | 20µL        | 0.90%            | 0.18   | 0.40%             | 0.08   |
|  |           | 10µL        | 1.20%            | 0.12   | 1.00%             | 0.1    |
|  |           | 2µL         | 3.00%            | 0.06   | 2.00%             | 0.04   |
| 5-50µL   | 0.5µL     | 50µL        | 0.60%            | 0.3    | 0.30%             | 0.15   |
|  |           | 25µL        | 0.90%            | 0.225  | 0.60%             | 0.15   |
|  |           | 5µL         | 2.00%            | 0.1    | 2.00%             | 0.1    |
| 10-100µL   | 1µL       | 100µL       | 0.80%            | 0.8    | 0.15%             | 0.15   |
|  |           | 50µL        | 1.00%            | 0.5    | 0.40%             | 0.2    |
|  |           | 10µL        | 3.00%            | 0.3    | 1.50%             | 0.15   |
| 20-200µL   | 1µL       | 200µL       | 0.60%            | 1.2    | 0.15%             | 0.3    |
|  |           | 100µL       | 0.80%            | 0.8    | 0.30%             | 0.3    |
|  |           | 20µL        | 3.00%            | 0.6    | 1.00%             | 0.2    |
| 50-200µL   | 1µL       | 200µL       | 0.60%            | 1.2    | 0.15%             | 0.3    |
|  |           | 100µL       | 0.80%            | 0.8    | 0.30%             | 0.3    |
|  |           | 50µL        | 1.00%            | 0.5    | 0.40%             | 0.2    |
| 100-1000µL   | 5µL       | 1000µL      | 0.60%            | 6      | 0.20%             | 2      |
|  |           | 500µL       | 0.70%            | 3.5    | 0.25%             | 1.25   |
|  |           | 100µL       | 2.00%            | 2      | 0.70%             | 0.7    |
| 200-1000µL   | 5µL       | 1000µL      | 0.60%            | 6      | 0.20%             | 2      |
|  |           | 500µL       | 0.70%            | 3.5    | 0.25%             | 1.25   |
|  |           | 200µL       | 0.90%            | 1.8    | 0.30%             | 0.6    |
| 1000-5000µL  | 50µL      | 5000µL      | 0.50%            | 25     | 0.15%             | 7.5    |
|  |           | 2500µL      | 0.60%            | 15     | 0.30%             | 7.5    |
|  |           | 1000µL      | 0.70%            | 7      | 0.30%             | 3      |
| 2-10mL   | 0.1mL     | 10mL        | 0.60%            | 60     | 0.20%             | 20     |
|  |           | 5mL         | 1.20%            | 60     | 0.30%             | 15     |
|  |           | 2mL         | 3.00%            | 60     | 0.60%             | 12     |

| TECHNICAL SPECIFICATION<br>PIPE-MP8 CHANNEL ADJUSTABLE VOLUME PIPETTES |           |             |                  |       |                   |       |
|--|-----------|-------------|------------------|-------|-------------------|-------|
| VOLUME RANGE   | INCREMENT | TEST VOLUME | (ACCURACY ERROR) |       | (PRECISION ERROR) |       |
|  |           |             | %                | µL    | %                 | µL    |
| 0.5-10µL   | 0.1µL     | 10µL        | 1.50%            | 0.15  | 1.50%             | 0.15  |
|  |           | 5µL         | 2.50%            | 0.125 | 2.50%             | 0.125 |
|  |           | 1µL         | 4.00%            | 0.04  | 4.00%             | 0.04  |
| 5-50µL   | 0.5µL     | 50µL        | 1.00%            | 0.5   | 0.50%             | 0.25  |
|  |           | 25µL        | 1.50%            | 0.375 | 1.00%             | 0.25  |
|  |           | 5µL         | 3.00%            | 0.15  | 2.00%             | 0.1   |
| 50-300µL   | 5µL       | 300µL       | 0.70%            | 2.1   | 0.25%             | 0.75  |
|  |           | 150µL       | 1.00%            | 1.5   | 0.50%             | 0.75  |
|  |           | 50µL        | 1.50%            | 0.75  | 0.80%             | 0.4   |

| TECHNICAL SPECIFICATION<br>PIPE-MP12 CHANNEL ADJUSTABLE VOLUME PIPETTES |           |             |                  |       |                   |       |
|---|-----------|-------------|------------------|-------|-------------------|-------|
| VOLUME RANGE  | INCREMENT | TEST VOLUME | (ACCURACY ERROR) |       | (PRECISION ERROR) |       |
|   |           |             | %                | µL    | %                 | µL    |
| 0.5-10µL  | 0.1µL     | 10µL        | 1.50%            | 0.15  | 1.50%             | 0.15  |
|   |           | 5µL         | 2.50%            | 0.125 | 2.50%             | 0.125 |
|   |           | 1µL         | 4.00%            | 0.04  | 4.00%             | 0.04  |
| 5-50µL  | 0.5µL     | 50µL        | 1.00%            | 0.5   | 0.50%             | 0.25  |
|   |           | 25µL        | 1.50%            | 0.375 | 1.00%             | 0.25  |
|   |           | 5µL         | 3.00%            | 0.15  | 2.00%             | 0.1   |
| 50-300µL  | 5µL       | 300µL       | 0.70%            | 2.1   | 0.25%             | 0.75  |
|   |           | 150µL       | 1.00%            | 1.5   | 0.50%             | 0.75  |
|   |           | 50µL        | 1.50%            | 0.75  | 0.80%             | 0.4   |

| TECHNICAL SPECIFICATION<br>PIPE-MPF FIXED VOLUME PIPETTE |           |             |                  |       |                   |       |
|--|-----------|-------------|------------------|-------|-------------------|-------|
| VOLUME RANGE   | INCREMENT | TEST VOLUME | (ACCURACY ERROR) |       | (PRECISION ERROR) |       |
|  |           |             | %                | µL    | %                 | µL    |
| 5µL  | -         | 5µL         | 1.3%             | 0.065 | 1.2%              | 0.06  |
| 10µL   | -         | 10µL        | 0.8%             | 0.08  | 0.8%              | 0.08  |
| 20µL   | -         | 20µL        | 0.6%             | 0.12  | 0.5%              | 0.1   |
| 25µL   | -         | 25µL        | 0.5%             | 0.125 | 0.3%              | 0.075 |
| 50µL   | -         | 50µL        | 0.5%             | 0.25  | 0.3%              | 0.15  |
| 100µL  | -         | 100µL       | 0.5%             | 0.5   | 0.3%              | 0.3   |
| 200µL  | -         | 200µL       | 0.4%             | 0.8   | 0.2%              | 0.4   |
| 250µL  | -         | 250µL       | 0.4%             | 1.0   | 0.2%              | 0.5   |
| 500µL  | -         | 500µL       | 0.3%             | 1.5   | 0.2%              | 1.0   |
| 1000µL   | -         | 1000µL      | 0.3%             | 3.0   | 0.2%              | 2.0   |
| 2000µL   | -         | 2000µL      | 0.3%             | 6.0   | 0.15%             | 3.0   |
| 5000µL   | -         | 5000µL      | 0.3%             | 15    | 0.15%             | 7.5   |

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