



**JENCO**

MEASURING POSSIBILITIES

**GENERAL CATALOG**

“

Jenco is a family-owned manufacturer with a 45 plus year history in designing and building water quality instruments for measuring pH, ORP, conductivity, TDS, salinity, resistivity, dissolved oxygen, ion, turbidity and temperature.

”

Jenco Instruments was founded in 1973 with a new approach to designing and building water quality instruments. By combining the then latest in semiconductor technology and the ingenuity of our R&D team, our small OEM manufacturing company was able to develop and build the world's first digital portable pH meter, which drastically improved measurement results and reduced manufacturing costs as compared to legacy products on the market.

Today, this pioneering spirit and a relentless focus on quality and value continue to inspire us to build the best next generation products—from the simplest testers, to advanced app-enabled benchtop meters, to mission critical continuous monitoring process instruments.

Jenco-branded instruments are sold throughout the world by our distributors, businesses that resell our products to individuals, businesses or institutions. In an OEM/ODM capacity, our experienced in-house teams design and manufacture instruments for other respected brands in our industry.

The aim of this catalog is to share with you our products and what we believe makes Jenco different than most other manufacturers in the water quality industry. If you are a distributor looking to represent a great line of water quality products, a company that is considering working with a partner to launch your own world class water quality products, or an end-user looking for well priced, easy to use water quality instruments, we hope you will be as excited about Jenco as we are excited about working with you!

## An Extension of Your R&D Team

In addition to working with great distributors all over the world, Jenco is grateful for the opportunities to work with world-class brands through our OEM, ODM and contract manufacturing partnerships to deliver turnkey, end-to-end solutions. By leveraging our in-house design, engineering, tooling, manufacturing, quality assurance and logistics expertise, our partners can quickly ramp up with customized water quality products for a wide variety of industries and applications and deliver these products to the marketplace.



### Product Design

Industrial designers work with partners to design customized faceplates, product housing, display layouts, manuals and marketing collaterals to meet brand specifications.



### App Development

iOS and Android developers and usability experts create custom apps that enhance our instruments, and ensure continued feature and usability improvements with regular updates.



### Hardware and Firmware Design

Engineers with deep expertise in water quality hardware, firmware, usability, legacy and advanced technical architectures deliver quality, cost-efficient and maintainable designs.



### Tooling Design

Mechanical engineers produce tooling for housing that meet end-user expectations and withstand harsh environments.



### Project Management

Jenco project sponsors and product managers work with partners to define business and product requirements. Project managers work with internal Jenco teams to ensure on-spec, on-time delivery.



### Certifications

Product managers and certification engineers work with proper testing agencies to meet international regulatory standards.

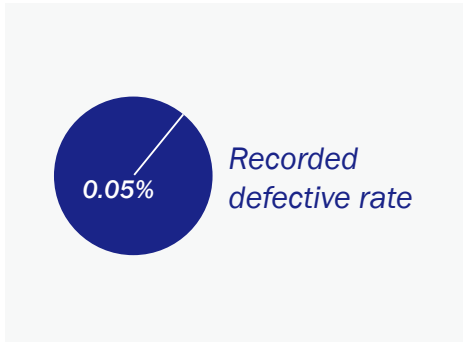
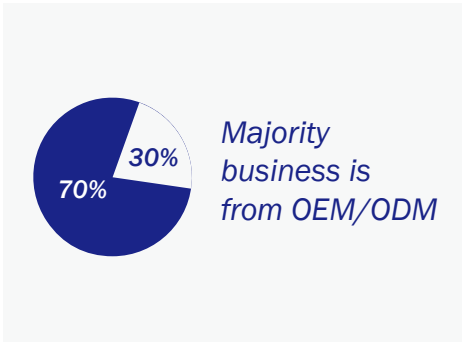
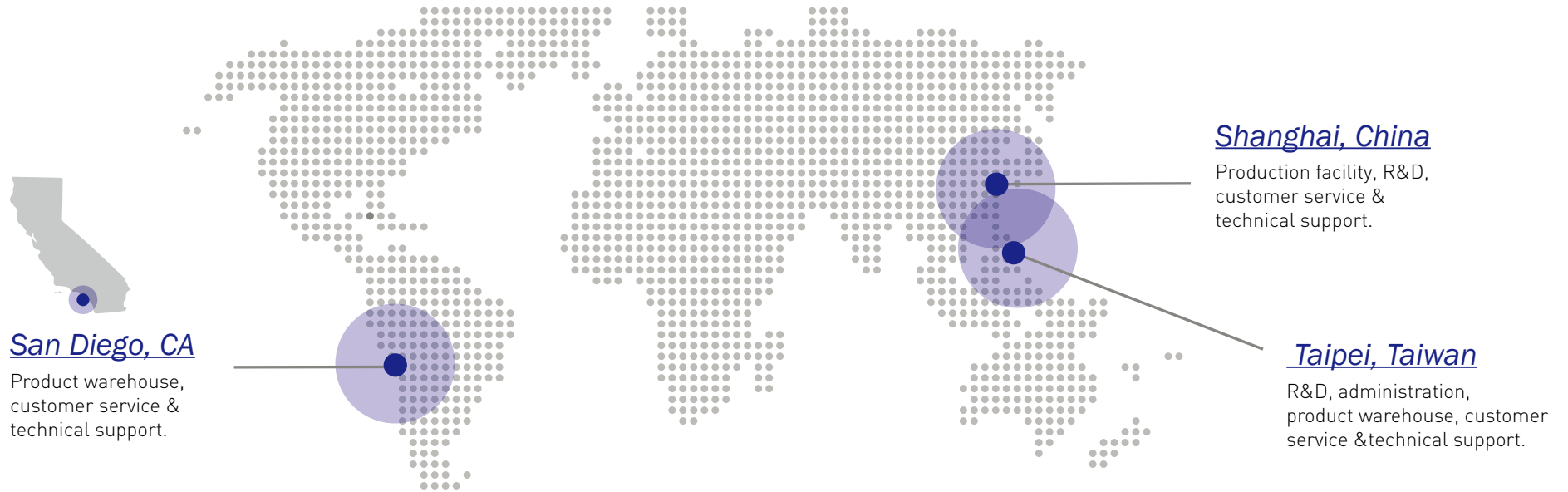


### Quality-Tuned Production System

While others tune for efficiency or cost-reduction, Jenco's production system is tuned for quality first, then efficiency.

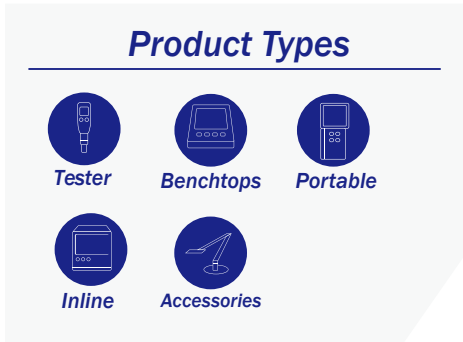
Jenco's production system is optimized to assure quality in a low volume, high SKU variation environment. Quality is assured at multiple points in our modified single-flow production system, where each production cell can handle small, 20pc to 50pc sized batches with the agility to quickly retune to produce different products.

Products produced at our facility meet CE, CMC, RoHS and FCC certifications.



**Parameters**

pH	TURB
DO	TDS
ORP	TEMP
ION	SAL
COND	RES



1973

Founding in Taipei, Taiwan



1975

World's first digital portable pH meter



1982



Launch of model 3671 pH/ORP controller, delivering never-before-seen balance between stability, reliability and price

1983



Continuing on the success of its smaller sibling, our model 3675 pH/ORP controller brought affordable quality to process control

1984

Established customer support and logistics hub in San Diego, CA



1992



Established R&D and production facility in Shanghai, China

2001

As seal of approval of our product quality, Jenco's portable series was private labeled for and sold exclusively to a large multinational brand



2014



Introduced the world's first Android-based, WIFI-enabled benchtop meter, offering up a huge leap in user experience for water quality meters

2017



Launch of Bluetooth tester series



2018



Launch of Bluetooth benchtop series and Bluetooth portable series





## Testers

1. **Wand B Series ( Bluetooth )** — p.7
  - pH610B ● ●
  - EC110B / EC111B / EC115B ● ● ●
  - ORP650B ● ●
  - TDS110B ● ●
2. **Wand N Series ( Non-Bluetooth )** — p.9
  - pH610N ● ●
  - COND110N / COND111N / COND115N ● ● ●
  - ORP650N ● ●
  - TDS110N / TDS111N / TDS115N ● ●
3. **VisionPlus Series** — p.11
  - pH / EC80 ● ● ● ● ●
  - pH630 / pH618N / pH619 ● ●
  - EC330 ● ● ●
  - EC331 ● ● ●
  - ORP628N ● ●
4. **Legacy Tester Series** — p.13
  - 610 / 620D ●
  - 650 ●
  - 110 / 111 / 112 / 115 ●
  - 113 ●



## Benchtops

1. **Basis ( Bluetooth and non-Bluetooth )** — p.15
  - 3177N / 3177B ● ● ● ●
  - 6177N / 6177B ● ● ●
  - 6377B ● ● ● ● ●
  - 6179 / 6179B ● ● ●
2. **3175, 6175 Series** — p.17
  - 3175-307A ● ● ●
  - 3175-307 ● ●
  - 6175 ● ● ●
3. **3173, 6173, 9173 Series** — p.18
  - 3173 / 3173R ● ● ● ●
  - 6173 / 6173R ● ● ●
4. **6219 pH / mV / Ion Meter** — p.19
  - 6219 ● ● ● ●



## Portables

1. **Basis Portable Series** — p.21
  - 6011M / 6011B ● ● ●
  - 3011M / 3021B ● ● ●
  - 9011M / 9011B / 9031M ● ●
2. **Economical Portable Series** — p.23
  - 3010M / 3020M ● ● ● ●
  - 6010M / 6010N ● ● ●
  - 9010M / 9030M ● ●
3. **Dual-Use Portable Series** — p.25
  - 6230M / 6230N / 6231M ● ● ●
  - 6250 ● ● ● ●
  - 3250M ● ● ● ●
  - 9250M ● ●
4. **Rugged Portable Series** — p.27
  - pH6810N ● ● ●
  - EC3840N ● ● ● ●
  - 7810 ●
5. **Pocket Thermometer Series** — p.29
  - 701JC / JF / KC / KF / TC / TF ●



## Inlines

1. **1/8 DIN Advanced Controllers and Transmitters** — p.31
  - 3621 / 3631 / 3651 / 3661 ● ● ●
  - 3321 / 3331 / 3351 ● ● ●
  - 3921 / 3931 / 3951 ● ●
3. **1/8 and 1/4 DIN basic Controllers and Transmitters** — p.33
  - 3675 / 3676 / 3679N ● ●
  - 691N / 692 ●
  - 3671N ● ● ●
4. **1/4 DIN Advanced Analyzers** — p.35
  - 6313 / 6311 ● ● ●
  - 6308PT / 6308PTB / 6312PT ● ●
  - 6308CT / 6308CST / 6308CTB / 6312CT ● ● ●
  - 6308DT ● ● ●
  - 6308DTB / 6312DTF ( B ) ● ●
  - 6309POT / 6309PDT ● ● ●
  - 6308TuSS
  - 6TX ● ● ●
2. **Wall Mountable Basic Transmitters** — p.37
  - pH3900 ●
  - DO3910 ●
5. **1/8 DIN Basic Temperature Series** — p.38 ●
  - 378JC / 378JF / 378KC / 378KF
  - 765JC / 765JF / 765KC / 765KC / 765TC / 765TF
  - 765PTAF / 765PTBF
  - 768JC-02 / 768JF-02 / 768KC-02 / 768KF-02



## Electrodes & Accessories

1. **pH** — p.40 ●
  - 600P / 600C / 600S-pH / 6810P
  - 6003P / 6005P / GB6005 / GB6003
  - GB700E / GB711E / GB712E
2. **pH** — p.41 ●
  - GB713E / GB715E / GB716E / GB707E
  - GB710T / GB710E / 2511-Z / 618P
3. **pH** — p.42 ●
  - 80P / IP-600-1N / IP-600-9 PT / TH
  - IP-600-15N PT / TH / IP-600-10
  - IP-600-3CN PT / TH / IP-600-3C
4. **ORP** — p.43 ●
  - 600S-ORP / 600L-ORP / IR-500-9N
  - IR-500-8
5. **EC** — p.44 ●
  - 101C / 106A/L / 107A/N / 109A/L
  - P3020P / 3840P / 330P / 331P
6. **EC** — p.45 ●
  - 392-125 / 392-122 / EC621-01
  - EC621-001 / EC621-1 / EC621-10
  - EC621-05 / 25-Series
7. **Do** — p.46 ●
  - LD-900-7 / LD-900-10 / LD-900-11
  - LSDO-4 / OXYSENS 120
8. **Accessories** — p.46
  - 007N / 007A



A high-speed photograph of a water splash, rendered in a monochromatic blue color scheme. The water droplets are captured in mid-air, creating a sense of motion and energy. The background is dark, making the bright blue water stand out. The word "Testers" is written in a clean, white, sans-serif font, positioned in the lower right quadrant of the image. A thin white diagonal line extends from the top right corner towards the text.

**Testers**

## Simply Powerful

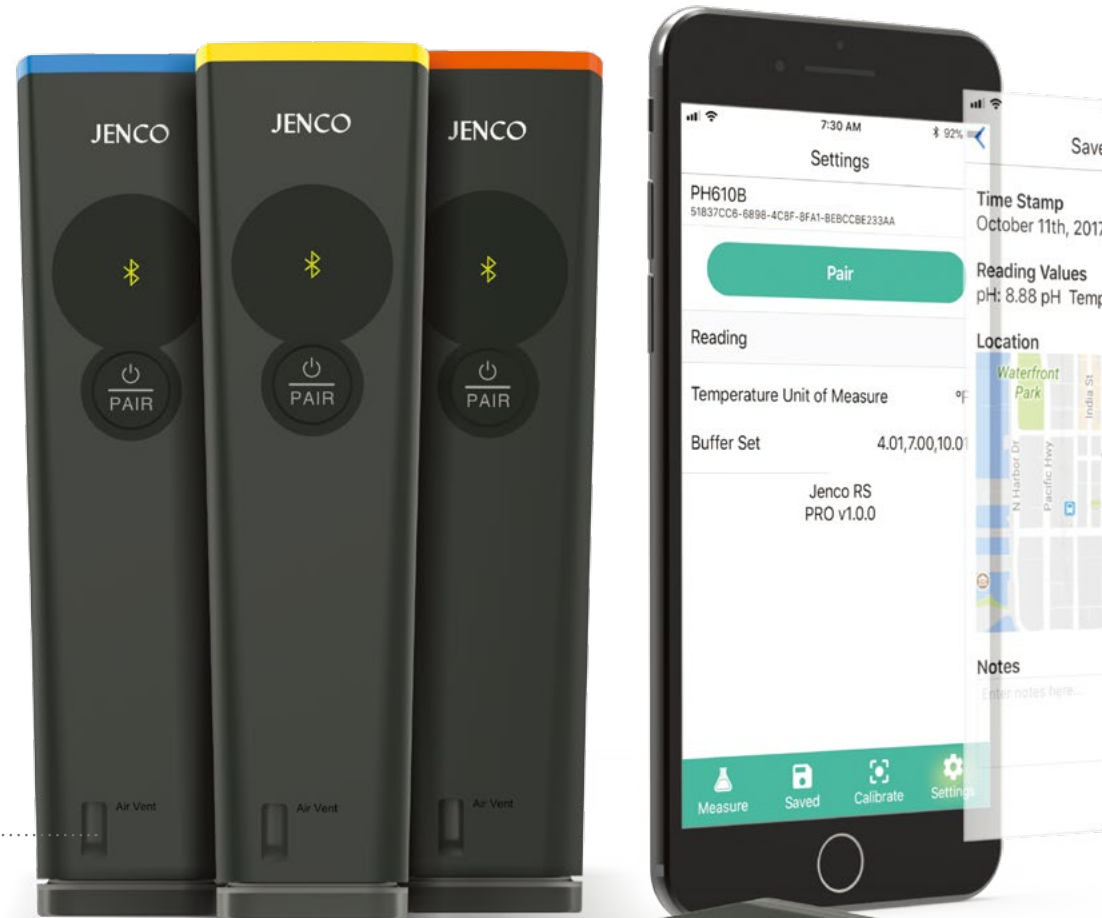
Take Accurate Readings Using Your Smartphone

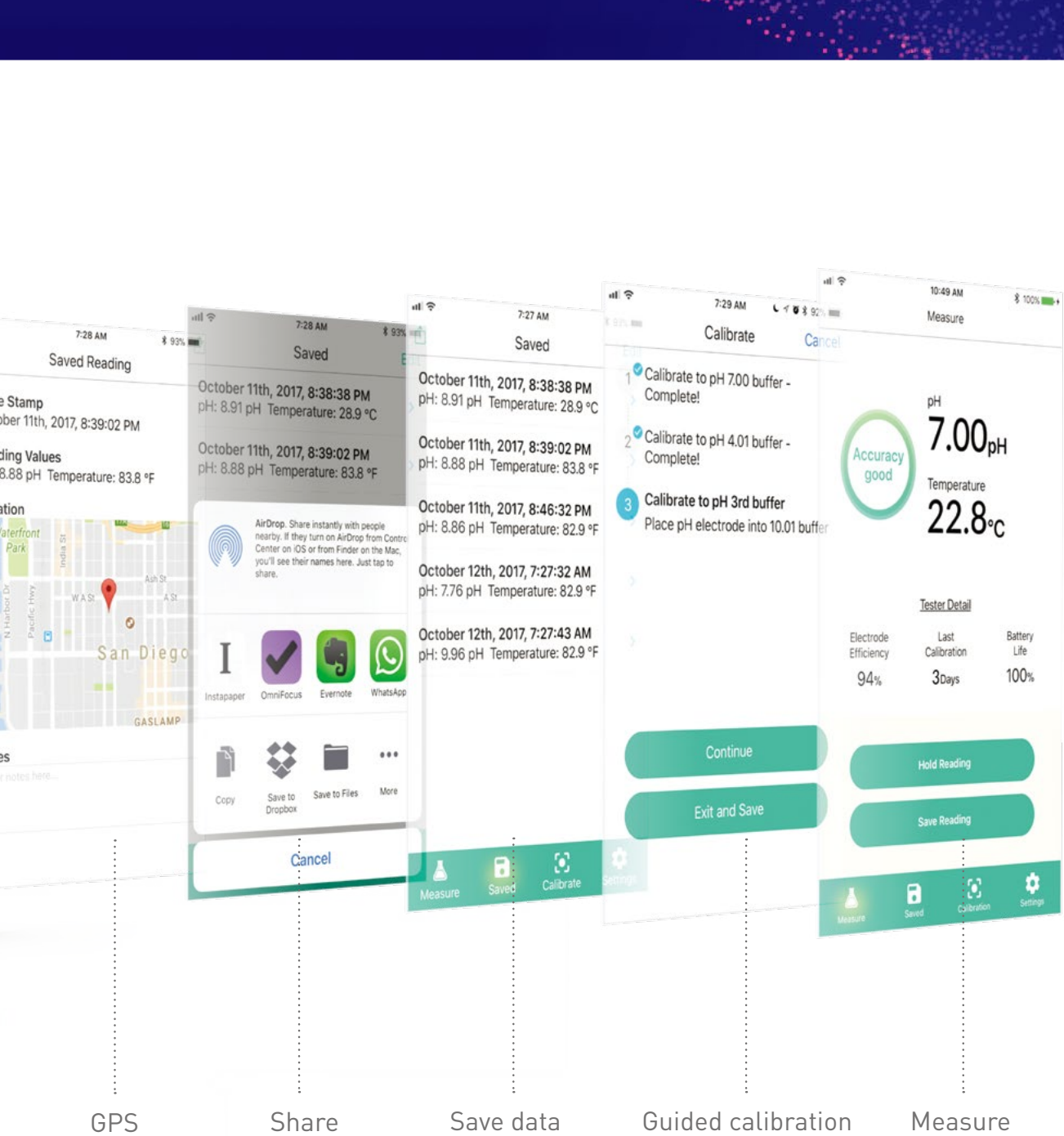
**pH610B / ORP650B / TDS110B  
EC110B / EC111B / EC115B**

By combining accurate water quality electronics with the power and convenience of smartphones, Jenco waterproof Bluetooth pH, ORP, conductivity TDS Salinity, TDS and temperature testers are the easiest way to accurately measure the water quality of pool, spa, hydroponics, aquarium, home brewing, environmental, plant maintenance, and other home and professional applications.

Specifications

Page.48





- pH
- ORP
- COND
- TDS
- TEMP
- SAL

Share saved measurement data with other apps for improved utility.

Accurate signal processing components are protected against the elements by an IP67 waterproof housing.

Free iOS and Android apps are as easy and convenient to use as your favorite iOS or Android apps.

Calibrate with easy to understand, jargon-free guided procedure (up to 3 points for pH, and 1 point for ORP and conductivity).

Display pH, ORP, conductivity, TDS or salinity readings with temperature, electrode status and last calibration date.

Recall saved readings with time stamp and GPS mapping of measurement location (feature available for purchase in Apple and Google app stores).

#### Available Configurations

- Single parameter pH, ORP, EC and TDS models with temperature
- EC comes in three different models each for three different measurement ranges



---

**pH610N / ORP650N**  
**COND110N / COND111N**  
**COND115N / TDS110N**  
**TDS111N / TDS115N**

---

Like its Bluetooth sibling, the Wand Non-Bluetooth Series' main focus is to deliver accurate and repeatable pH, ORP, conductivity and TDS results easily and affordability. This was accomplished by starting with Jenco's longest running and very popular tester series and updating it with better electronics for better accuracy, replacing the potentiometer with buttons with tactile feedback and protecting the upgraded internals with an IP67 waterproof housing.

Specifications

Page.49



- pH
- ORP
- COND
- TDS
- TEMP

IP67



*Improved Reading Quality*

- 2 Points calibration (pH)
- $\pm 0.05$  accuracy (pH)
- $\pm 3$  mV accuracy (ORP)
- 1 Point calibration (Conductivity, TDS)
- $\pm 1\%$  FS accuracy (Conductivity, TDS)

*Simple Operation*

- Clear, large LCD displays pH, ORP or conductivity, with temperature
- Button operations with tactile feedback
- IP67 waterproof housing

*Available Configurations*

- Single parameter pH, ORP, conductivity and TDS models with temperature Conductivity and TDS comes in three different models each for three different measurement ranges



**pH/EC80 / pH630**  
**pH618N / pH619 / EC330**  
**EC331 / ORP628N**

The VisionPlus tester series offers users accurate water quality readings and advanced water quality functionality in an ultra-portable form factor.

Specifications

Page.50



618P



330P



331P



628P



80P



- pH
- ORP
- COND
- TEMP
- SAL
- RES

#### Reliable and Repeatable Results

- 1, 2, or 3 point calibration (pH)
- $> 10^{12} \Omega$  input impedance (pH)
- Zero adjust (ORP)
- 1 or 2 point calibration (cond)

#### Advanced Functionality

- Dual parameter pH and conductivity
- Automatic temperature compensation (pH)
- Dual range with selectable or auto-ranging options (cond)
- 50 Memory storage

#### Improved Usability

- Replaceable electrode module
- IP67 waterproof housing
- Graphical LCD

#### Available Configurations

- Single and multi-parameter pH, ORP, conductivity
- Graphical and segmented LCD display
- With or without memory storage
- °C or °F temperature readout



- pH
- ORP
- COND
- TDS

## 610 / 620D 650 / 110 / 111 112 / 113 / 115

The Legacy Tester Series, originally developed over 20 years ago and updated recently, continues to be popular for users looking for the absolute easiest way to get meter-based measurements as compared to test strips or other rudimentary chemical test kits.

Specifications

Page.51



### Simplest, Dip-and-Read Operations

- Simple calibration with potentiometers
- Protective cap

### Good Accuracy

- Direct read out of pH, ORP and conductivity
- $\pm 0.2$  pH accuracy (pH)
- Single point pH calibration (pH)
- $0.2 \pm 1$  mV accuracy (ORP)
- 1 Point gain adjustment ORP calibration (ORP)
- $\pm 2\%$  FS conductivity accuracy (conductivity)
- 1 Point calibration for conductivity (conductivity)

### Available Configurations

- Single parameter pH, ORP, conductivity
- With or without temperature compensation (pH)
- With or without double junction electrode (pH)





# Benchtops

## Upgrade to Next-Level Productivity with App-Enhanced Benchtop Meters

**6177N / 6177B / 6179 / 6179B**  
**3177N / 3177B / 6377B**

Our 5th generation benchtop series consists of single and multi-parameter models, with or without Bluetooth connectivity. The non-Bluetooth models are easy to use, providing repeatable, accurate readings. When paired with iOS and Android tablets, the Bluetooth models enable the same user experience as users' favorite apps while providing graphing, guided calibration procedures, GLP-compliant data storage, data sharing, cloud data storage and user-defined compliance policies.

Specifications

Page.52





- pH
- ORP
- COND
- TDS
- TEMP
- SAL
- ION

### *Best-in-class Usability*

Free iOS and Android apps are as easy and convenient to use as users' favorite apps, and allow complete control of all on-meter functionality plus guided calibration procedures

### *High Information Availability*

Display pH or conductivity and temperature readings simultaneously with electrode efficiency, last calibration date and real-time graphing of pH or conductivity readings.

### *GLP-Compliant Data Storage*

> 10k Sets of pH or conductivity and temperature data plus calibration data such as calibration date, buffers used, calibration slopes and calibration offsets.

### *Easily Share Data Locally or to the Cloud*

Share stored data to other apps such as Notes and Evernote or to cloud services such as Google Docs.

### *Implement Best Practices*

Enforce department or company policies such as calibration frequencies, number of calibration points and minimum electrode efficiency.

### *Available Configurations*

- Single or multi-parameter pH, ORP, ion, temperature, conductivity, salinity, TDS
- With or without Bluetooth connectivity



- pH
- ORP
- TDS
- COND
- TEMP

## 3175 / 3175-307A / 3175-307 / 6175

This is our 4th generation benchtop series which consists of single parameter models that are great for laboratory and research applications. Easy to use and able to provide repeatable, accurate readings, this series is an ideal for private labeling.

Specifications

Page.53



### *Basic, Easy to Use*

- Automatic or manual temperature compensation (pH)
- Automatic buffer recognition of US and NIST buffer sets (pH)
- Dedicated pushbuttons for key operations

### *Reliable and Repeatable Results*

- $> 10^{12} \Omega$  input impedance (pH)
- 2 Points calibration (pH)
- 2-Wire conductivity (conductivity, salinity, TDS)
- 1 Point per range calibration (conductivity, salinity, TDS)
- K = 0.1, 1.0 and 10.0 (conductivity, salinity, TDS)

### *Available Configurations*

- Single parameter pH, ORP, conductivity, salinity, TDS, temperature

## 6173 / 6173R 3173 / 3173R / 9173 9173R

This series of Jenco benchtop meters is built with an extra large display and available PC data transfer, well suited for demonstration and any applications where data needs to be recorded or transferred for detailed analysis.

Specifications

Page.54



### Well-Thought-Out Usability

- Extra large clear LCD display with 21mm tall characters
- Automatic or manual temperature compensation (pH)
- Automatic buffer recognition of US and NIST buffer sets (pH)
- RS-232 PC interface for data transfer
- Dedicated pushbuttons for key operations

### Reliable and Repeatable Results

- $> 10^{12} \Omega$  input impedance (pH)
- 2 Points calibration (pH)
- 2-Wire conductivity (conductivity, salinity, TDS)
- 1 Point per range calibration (conductivity, salinity, TDS)
- K = 0.1, 1.0 and 10.0 (conductivity, salinity, TDS)
- Polarographic dissolved oxygen (DO)
- 1 Point calibration (DO)
- Adjustable pressure and salinity compensation (DO)
- AC adaptor or battery powered

### Available Configurations

- Single parameter pH/mV, conductivity, salinity, TDS, DO with temperature
- With or without RS-232

pH

ORP

COND

TDS

TEMP

Do

SAL

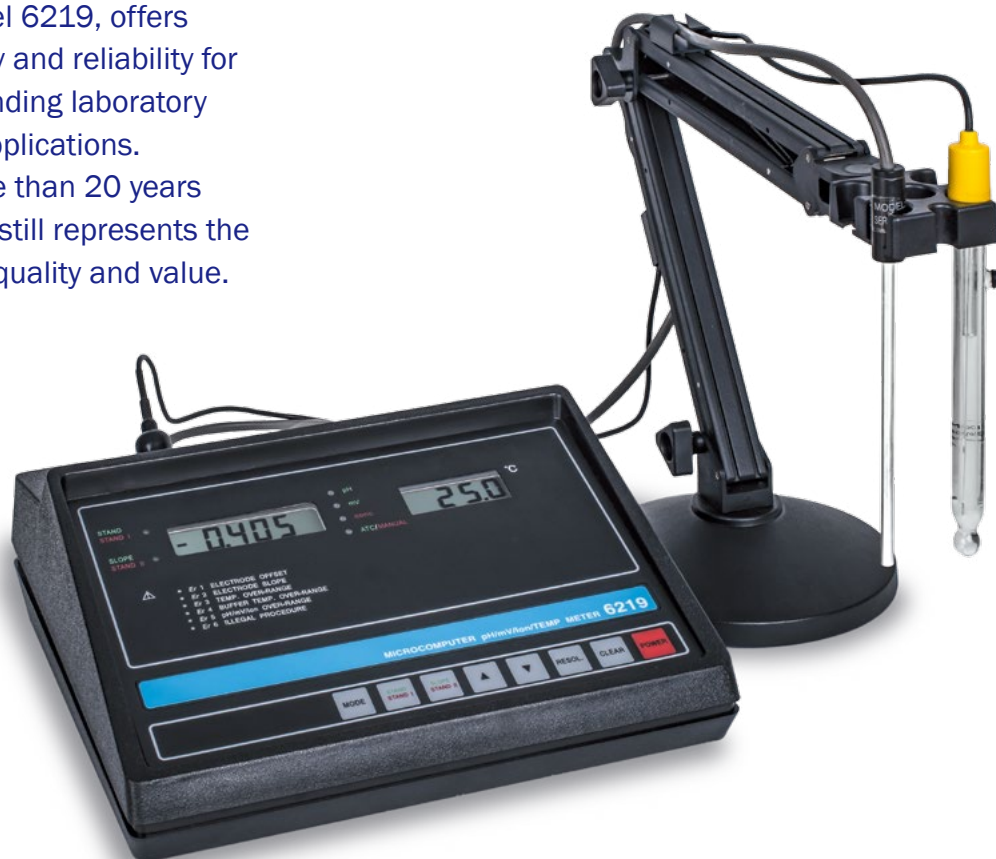
- pH
- ORP
- TEMP
- ION

## 6219 pH/mV/Ion Meter

Jenco's most advanced benchtop meter, the model 6219, offers superb accuracy and reliability for the most demanding laboratory and research applications. Introduced more than 20 years ago, this model still represents the best in reading quality and value.

Specifications

Page.54

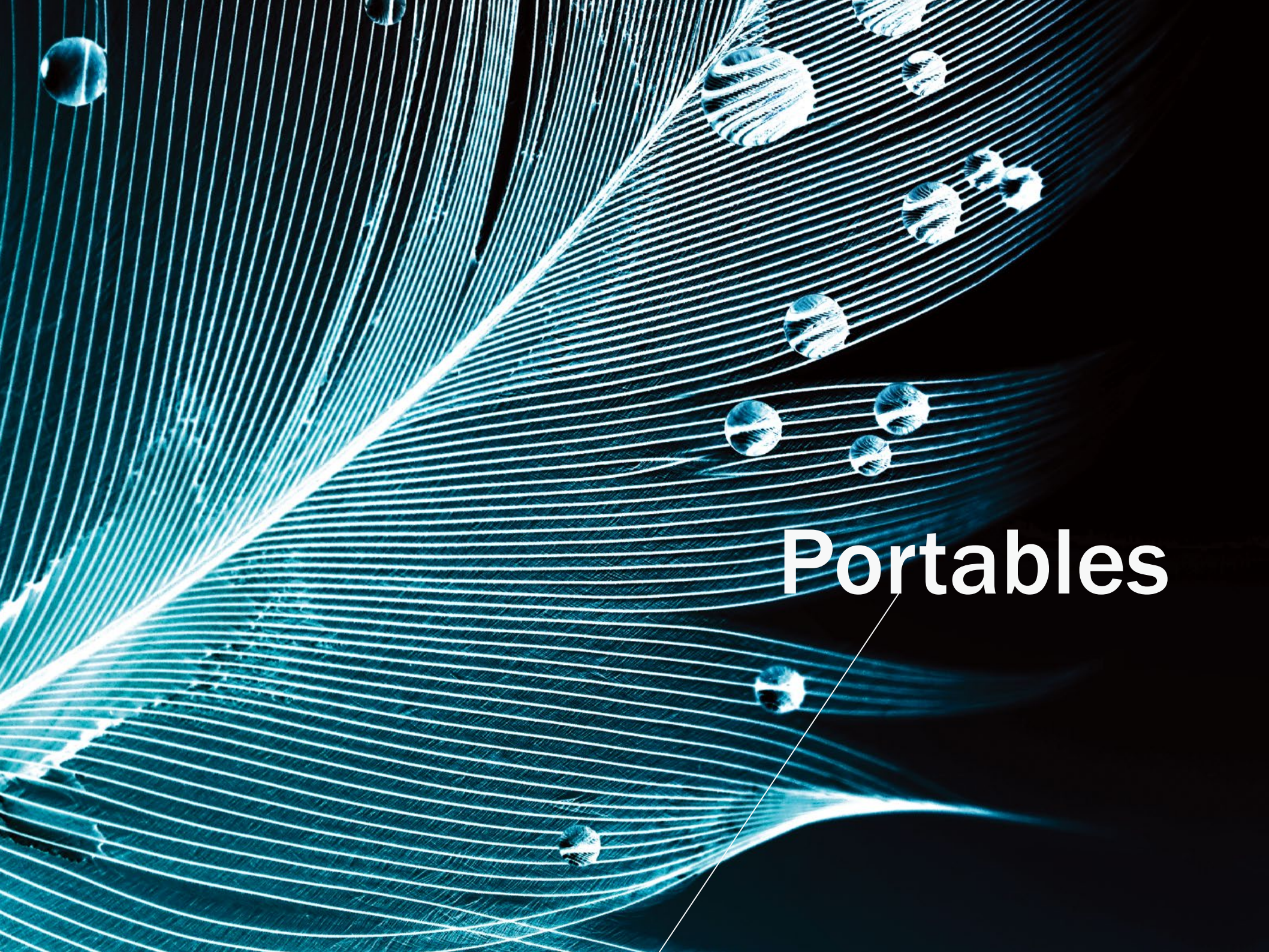


### Superb Accuracy

- -2.000 16.000 pH range
- 0.001 pH resolution
- $\pm 0.01\%$   $\pm 1$  digit pH accuracy
- -1999.9 1999.9 mV range
- 1 mV / 0.1 mV resolution
- $\pm 0.01\%$   $\pm 1$  digit accuracy
- 0.0 119.8 conc range
- 0.05 ; 0.1 or 0.2 conc resolution
- $\pm 2$  digit accuracy
- Fast two point calibration

### Useful Features For Laboratory

- Direct readout of ion concentration
- Automatic pH buffer recognition
- RS-232 PC interface
- Battery or AC powered



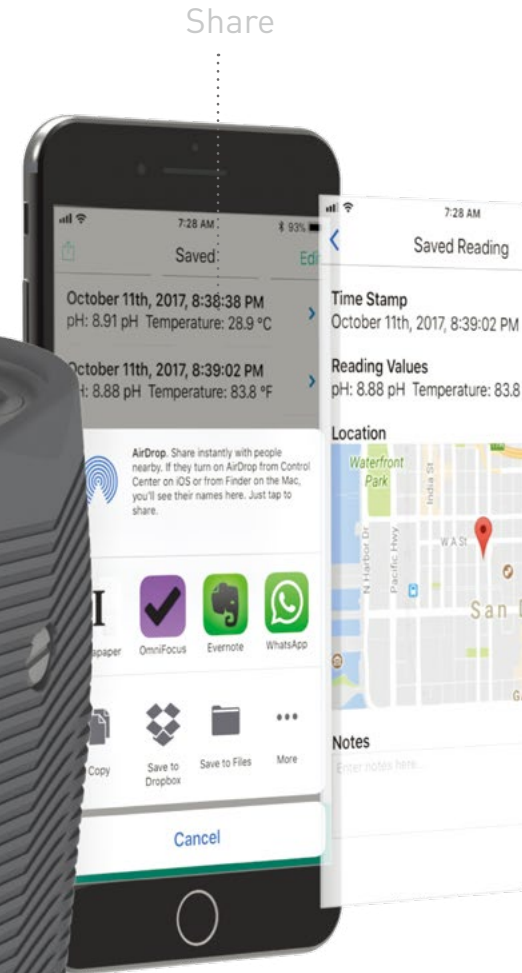
# Portables

## Basis Portable Series

The Basis Portable Series is Jenco's latest iteration of our portable meters and represents a huge step forward for on-location water quality measurements. This series introduces Bluetooth connectivity and a merging of the best features from our other series, which means we double down on reliability, usability and value.

Specifications

Page.55.56





GPS Save data Guided calibration Measure



### Accurate, Reliable Measurements

- 3 Point calibration (pH)
- > 10<sup>12</sup> Ω input impedance (pH)
- Automatic or manual temperature compensation (pH)
- ORP zero adjust (ORP)
- 1 Point calibration per range (EC)
- 2-Wire or 4-wire probes (EC)
- 1 Point calibration (DO)

### Bluetooth Connectivity

- No need to hold smartphone: automatically save readings to iOS or Android app
- Save readings directly to PC via Bluetooth
- GLP compliance data storage with GPS location
- Data sharing to other apps or to the cloud

### Improved Usability

- Clear, large, backlit LCD
- Membrane buttons with tactile feedback On-device memory storage
- IP67 water-tight housing
- Removable, rugged protective case
- Inclined back for tabletop use

### Available Configurations

- Single and dual parameter pH, ORP, conductivity, TDS, salinity, dissolved oxygen, optical dissolved oxygen, pHORPEC, pH/ODO
- Polarographic or optical DO
- Bluetooth and non-Bluetooth models
- With or without memory storage
- With or without protective case

- pH
- ORP
- COND
- TDS
- DO
- TEMP
- SAL



**6010M / 6010N / 3010  
3010M / 3020M /  
9010M / 9020M / 9030M**

Jenco's Economical Portable Series are popular among distributors and OEM customers alike for their fair, value-based pricing, reliability in the field, and no-frills ease of use.

Specifications

Page.57



- pH
- ORP
- COND
- TDS
- DO
- TEMP
- SAL



#### No-Frills Ease of Use

- Stores 50 data points
- Automatic or manual temperature compensation (pH)
- Automatic buffer recognition of US and NIST buffer sets (pH)
- Optical dissolve oxygen for fewer membrane replacement
- IP65 splash-proof housing
- Large, clear LCD with dedicated pushbuttons for key operations

#### Reliable and Repeatable Results

- $> 10^{12} \Omega$  input impedance (pH)
- 2 Points calibration (pH)
- 2-Wire conductivity (conductivity, salinity, TDS)
- 1 Point per range calibration (conductivity, salinity, TDS)
- K = 0.1, 1.0 and 10.0 (conductivity, salinity, TDS)
- 1 Point calibration (DO)
- Adjustable pressure and salinity compensation (DO)

#### Available Configurations

- Single parameter pH/mV, conductivity, salinity, TDS, DO with temperature
- 2-Wire or 4-wire conductivity
- Galvanic, polarographic or optical dissolved oxygen



---

**6230M / 6230N**  
**6231M / 6231N / 3250**  
**9250M / 9251M / 6250**  
**6251 / 6360**

---

Designed to be at apt in the field and on a laboratory benchtop, this series offer true lab- grade quality readings with well-thought-out features and form factor.

Specifications

Page.58.59



- pH
- ORP
- COND
- TDS
- DO
- TEMP
- SAL
- ION



*For in the Laboratory*

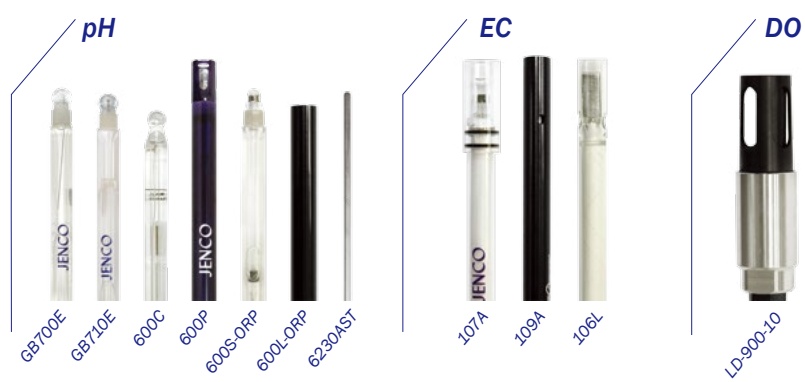
- Inclined housing puts the meters at the same angle as benchtop meters
- RS-232 computer interface for data exchange
- Up to 0.001 pH accuracy
- Automatic or manual temperature compensation (pH)
- 2 points calibration (pH)
- > 10<sup>12</sup> Ω input impedance (pH)
- 2-Wire or 4-wire conductivity (conductivity, salinity, TDS)
- 1 Point per range calibration (conductivity, salinity, TDS)
- K = 0.1, 1.0, 4.75 and 10.0 (conductivity, salinity, TDS)
- 1 Point calibration (DO)
- Adjustable pressure and salinity compensation (DO)
- AC adaptor powered

*For Out in the Field*

- Easy to carry form factor with ruggedized housing
- Stores 50 data points
- Mechanical buttons with audio feedback
- IP65 splash-proof housing
- Battery powered

*Available Configurations*

- Single and multi-parameter pH, ORP, ion, conductivity, salinity, TDS, dissolved oxygen, temperature.



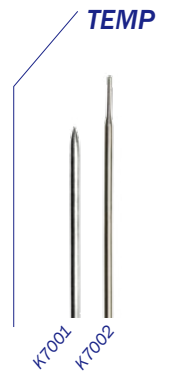
## pH6810N / EC3840N 7810

The Rugged Portable Series is engineered to provide accurate readings for professionals who work in demanding environments. The meter's electronics are enclosed in an IP67 rated housing which is further reinforced by a thick rubber boot. Optional IP67 rated electrode cable and connector maintain the protective rating of this meter.

Specifications

Page.60





**No-Frills Ease of Use**

- Automatic or manual temperature compensation (pH)
- Automatic buffer recognition of US and NIST buffer sets (pH)
- Selectable cell constants for true wide range readings
- Automatically finds the most suitable display range for your measurements (conductivity, TDS, salinity)
- Adjustable TDS coefficient, reference temp., temp. coefficient for most flexible and accurate TDS readings (TDS)
- 50 set memory storage (temperature)
- IP67 splash-proof housing
- Removable shock-resistant rubber boot
- Large, clear LCD that simultaneously display pH, mV, conductivity, TDS and salinity with temperature

**Reliable and Repeatable Results**

- > 10<sup>12</sup> Ω input impedance (pH)
- Up to 3 point calibration (pH)
- Electrode efficiency display (pH)
- 4-wire conductivity (conductivity, salinity, TDS)
- 1 Point per range calibration (conductivity, salinity, TDS)
- K = 0.475 (conductivity, salinity, TDS)
- Accepts type K, type J and type T thermocouple

**Available Configurations**

- Single parameter pH, mV, conductivity, salinity, TDS and temperature

- pH
- ORP
- COND
- TDS
- TEMP
- SAL

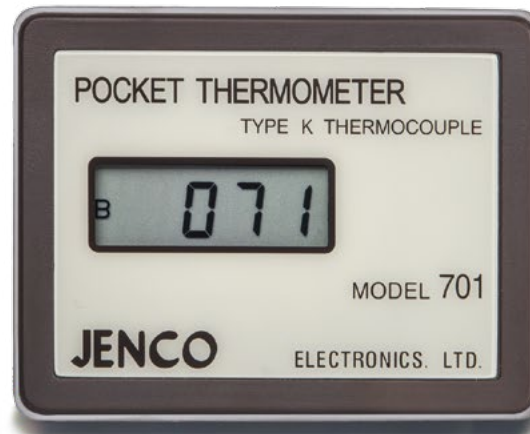


## 701 / JF / KC /KF / TC /TF Thermometer

Jenco's affordable pocket thermocouple thermometers offer accurate and reliable temperature readings for a wide ranging set of applications.

Specifications

Page.61



### Accurate and Reliable Readings

- Accuracy  $\pm 0.25\%$ ,  $\pm 1$  digit
- Resolution  $1^{\circ}\text{C}$  or  $1^{\circ}\text{F}$
- Factory calibrated
- Cold junction compensation
- All solid state design

### Simple Usability

- Wide temperature range
- Interchangeable thermocouple sensor
- Clear LCD display
- Magnetic back allows for easy placement
- Long life with 9 V battery

### Available Configurations

- 6 Different thermocouples
- Celsius or Fahrenheit reading





**Inlines**

A thin white line extends from the bottom left corner of the word 'Inlines' towards the bottom left corner of the image.

---

**3621 / 3631**

**3651 / 3321 / 3331**

**3351 / 3921 / 3931 / 3951**

---

Jenco's 1/8 DIN advanced controllers and transmitters form the foundation of our inline product line. Economical, easy to use, and reliable, this complete line is ideal for system builders looking for flexible configurations and seamless integration into water quality control and monitoring systems.

Specifications

Page.62



- pH
- ORP
- COND
- TEMP
- DO
- RES



### Built for Integrated Systems

- Easy to install 1/8 DIN plastic casing
- Consistent 4-button operation
- Select right parameter/functional combination

	On /Off	4-20mA	Modbus Output
pH/mV	X	X	X
Conductivity Resistivity	X	X	X
DO	X	X	X

### No-Frills Ease of Use

- Automatic buffer recognition of US and NIST buffer sets (pH)
- Automatic or manual temperature compensation (pH, conductivity)
- Clear backlit LCD displays primary parameter or temperature
- Displays absolute and relative ORP (ORP)

### No-Frills Ease of Use

- Isolated 4-20 mA current output
- Isolated RS-485 Modbus output
- Two sets of programmable relays
- Programmable hysteresis for customized control

### Available Configurations

- pH, mV, conductivity and dissolved oxygen models
- Controllers, 4-20 mA and Modbus data transmission
- pHmV model available with relay and/or 4-20 mA output



## 3675 / 3676 3679N / 691N / 692 3671N

Introduced more than 20 years ago, Jenco's basic inline meters continue to be the go-to choice for unparalleled ease-of use and reliability. These no-frills pH/mV (ORP) inline meters perform continuous on-location monitoring and remote monitoring and control, optimizing your mission-critical processes by increasing quality and reducing downtime.

Specifications

Page.64



- pH
- ORP
- TEMP



#### *No-Frills Ease of Use*

- Calibrate by direct manipulation of readings via potentiometers
- Dedicated high and low alarm set pushbuttons and potentiometers
- Automatic temperature compensation
- On-label guide for calibration and alarm set
- LED high and low alarm status indicator
- Clear 12.7 mm tall LCD

#### *Reliable and Repeatable Results*

- One or two-point calibration (pH)
- Zero adjustment for ORP
- $\pm 0.01$  pH  $\pm 0.1$  % ORP accuracy

#### *Flexible Control and Transmission*

- Isolated 4-20 mA current output
- One high and one low on/off relays
- Factory-programmed hysteresis for smooth alarm control

#### *Available Configurations*

- LCD and LED display
- Water & corrosion proof case
- 1/8 and 1/4 DIN sizes
- Isolated 4-20 mA over any 2 pH units (model 691N)



**6313 / 6311**

**6308PT / 6308PTB / 6308CT**

**6308CST / 6308CTB / 6308DT**

**6312DT / 6309POT / 6309PDTF**

**6308TuSS / 6TX**

Jenco's advanced inline meters are versatile workhorse units, built to monitor and control the most demanding, the most critical processes. These meters are built upon the reliability of our basic inline meters, available with improved usability, control and transmission functionality, and multi-parameter support.

Specifications

Page.65.66.67



- pH
- ORP
- TDS
- COND
- DO
- TEMP
- SAL



#### Improved Usability

- Large, high contrast graphical LCD with backlight
- Menu-driven operation with password protection
- High information availability that displays measurements with cell constant (EC), buffer information, electrode efficiency (pH), and current output
- Automatic buffer recognition (pH)

#### Reliable and Repeatable Results

- Multiple calibration points (pH, turbidity, EC)
- High noise rejection
- Self diagnostic at power up
- > 10<sup>12</sup> ohms (pH)

#### Flexible Control and Transmission

- Isolated and reversible 4-20 mA current output
- Scaleable 4-20 mA current output (model 6TX)
- Standard and Modbus RS-485 output
- Multiple programmable relays
- Programmable hysteresis for customized control
- Daisy chain multiple units via RS-485 for output to one computer
- Wash relay

#### Available Configurations

- Single and dual parameters (pH, ORP, EC, DO, turbidity, temperature)
- Graphical and LCD display
- Controller and/or transmitter functions
- 2-Wired loop powered (12 V to 36 V DC)



● pH

● DO

### pH3900 / D03910

Jenco's popular 1/8 DIN transmitters in a wall-mountable, IP65 enclosure. These no-frills, economical and extremely easy to use pH and DO continuous monitoring models are ideal for remote locations to meet challenging power availability and operating conditions.

Specifications

Page.68



#### *No-Frills Ease of Use*

- Calibrate by direct manipulation of readings via potentiometers
- Automatic temperature compensation
- On-label guide for calibration
- Wide range of power supply of 11 to 50 VDC

#### *Reliable and Repeatable Results*

- Isolated two wire 4-20 mA current output
- One or two-point calibration for pH
- 0% and 100% calibration for DO
- $\pm 0.02$  pH  $\pm 0.2\%$  FS DO accuracy

#### *Available Configurations*

- Single parameter pH or DO



378JC / JF / KC / KF  
 765JC / JF / KC / TC  
 TF / PTAF/PTBF  
 768JC-02 / JF-02  
 KC-02 / KF-02

Jenco's 1/8 DIN digital temperature monitor, transmitters and controller has been a staple in integrated systems and process control, where stability and reliability are key.

Specifications

Page.61



#### Accurate and Reliable Readings

- Cold junction compensation
- All solid state design
- Factory calibrated

#### Simple Usability

- 4-20 mV analog output
- Relay hysteresis
- Proportional band-width control
- Manual adjust reset
- Wide temperature range
- Clear, 12mm LED display

#### Available Configurations

- Voltage output
- On/off relay
- PT-1000 RTD, and type J, type K, type T type E thermocouple



# Electrodes & Accessories



## ① 600P

pH Range	0 ~ 14 pH
Temperature Range	0 ~ 80 °C
Reference Type	Single junction
Feature	Durable PC housing
Cable Length	1 m
Connector	BNC
Application	General measurement

## ② 600C

pH Range	2 ~ 12 pH
Temperature Range	0 ~ 60 °C
Reference Type	Single junction
Feature	Glass electrode
Cable Length	1 m
Connector	BNC
Application	Pure water and tap water measurement

## ③ 600S-pH

pH Range	0 ~ 14 pH
Temperature Range	0 ~ 80 °C
Reference Type	Double junction
Feature	Epoxy housing, planar electrode
Cable Length	1 m
Connector	BNC or other
Application	General measurement

## ④ 6810P / 6003P / 6005P

pH Range	0 ~ 14 pH
Temperature Range	0 ~ 80 °C
Reference Type	Single Junction
Feature	Temperature Compensation
Cable Length	1m
Connector	ATC+BNC
Application	General measurement

## ⑤ GB6005 / GB6003

pH Range	0 ~ 14 pH
Temperature Range	0 ~ 80 °C
Reference Type	Single junction
Feature	3 in 1 Glass electrode (10K Temperature Compensation) KCL addible
Cable Length	1 m
Connector	BNC+DIN / BNC+ATC
Application	General measurement

## ⑥ GB700E

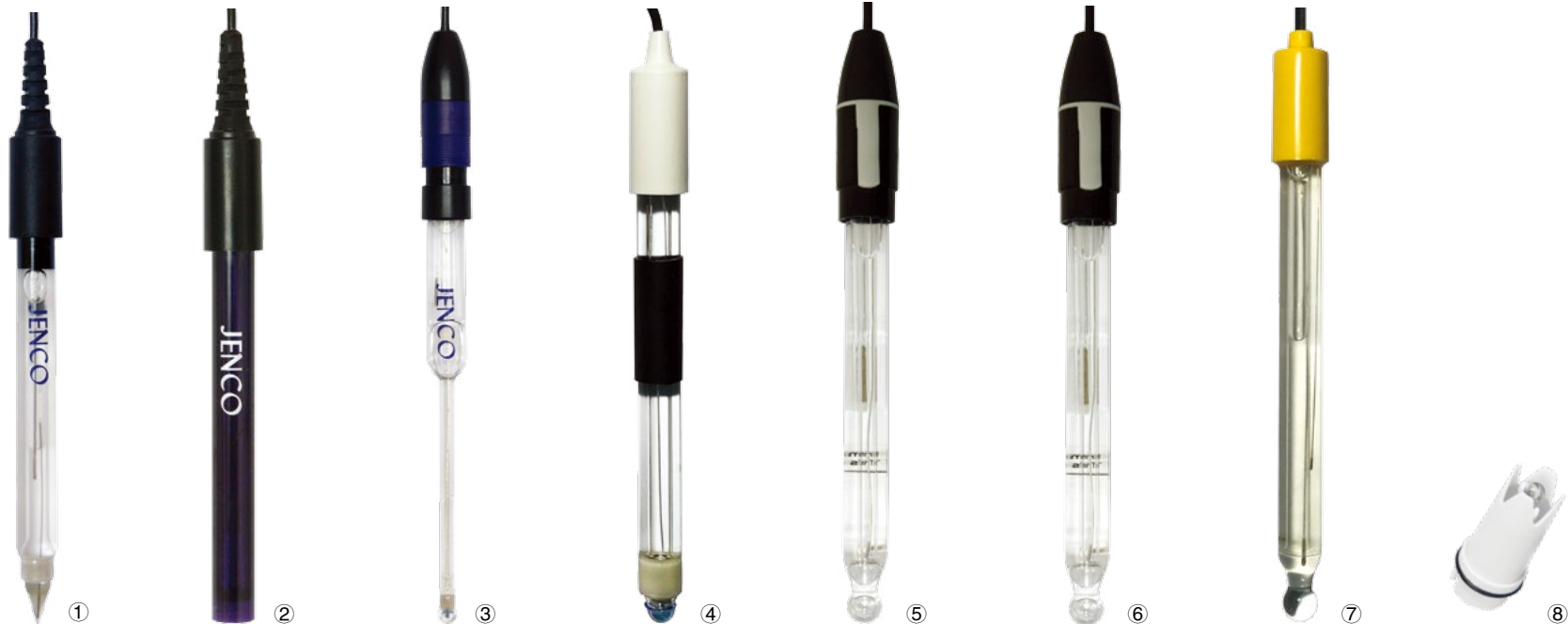
pH Range	0 ~ 14 pH
Temperature Range	0 ~ 80 °C
Reference Type	Single junction
Feature	Glass electrode, KCL addible
Cable Length	1 m
Connector	BNC
Application	General measurement

## ⑦ GB711E

pH Range	0 ~ 14 pH
Temperature Range	0 ~ 80 °C
Reference Type	Double junction
Feature	Glass electrode, KCL addible
Cable Length	1 m
Connector	BNC
Application	Resistance to strong acid and alkali

## ⑧ GB712E

pH Range	0 ~ 14 pH
Temperature Range	0 ~ 80 °C
Reference Type	Double junction
Feature	Glass electrode, LiCl addible
Cable Length	1m
Connector	BNC
Application	Measure the organic sample



① **GB713E**

pH Range	0 ~ 14 pH
Temperature Range	0 ~ 80 °C
Reference Type	Single junction
Feature	Durable PC housing
Cable Length	1 m
Connector	BNC
Application	Puncturable meat, vegetables or fruits

② **GB715E**

pH Range	0 ~ 13 pH
Temperature Range	0 ~ 80 °C
Reference Type	Single junction
Feature	Planar composite electrode
Cable Length	1 m
Connector	BNC
Application	Suitable for micro sample, e.g. skin/paper/cloth/dough

③ **GB716E**

pH Range	0 ~ 14 pH
Temperature Range	0 ~ 80 °C
Reference Type	Double junction
Feature	Glass electrode, KCL addible
Cable Length	1 m
Connector	BNC
Application	Composite electrode for test tube

④ **GB707E**

pH Range	0 ~ 14 pH
Temperature Range	0 ~ 100 °C
Reference Type	Single Junction
Feature	Glass electrode
Cable Length	1 m
Connector	BNC
Application	Strong acid, alkali, partial organic solution or viscous oil

⑤ **GB710T**

pH Range	0 ~ 14 pH
Temperature Range	5 ~ 60 °C
Reference Type	Double junction
Feature	Cusp glass electrode
Cable Length	1 m
Connector	BNC
Application	Suitable for heavy metals, protein, TRIS

⑥ **GB710E**

pH Range	0 ~ 14 pH
Temperature Range	5 ~ 90 °C
Reference Type	Double junction
Feature	Glass electrode, KCL addible
Cable Length	1 m
Connector	BNC or other
Application	Strong acid, alkali, partial organic solution or viscous oil

⑦ **2511-Z**

pH Range	0 ~ 14 pH
Temperature Range	5 ~ 60 °C
Reference Type	Single junction
Feature	Glass electrode
Cable Length	1 m
Connector	BNC (2511-Z-B) or Y type connector (2511-Z-Y)
Application	General measurement

⑧ **618P**

pH Range	0 ~ 14 pH
Temperature Range	0 ~ 60 °C
Reference Type	Single junction
Feature	3 in 1 electrode ( include temperature )
Cable Length	Special for PH618N/PH630/pH619
Connector	General measurement

**① 80P**

pH Range	0 ~ 14 pH
Temperature Range	0 ~ 1999 uS/cm
Reference Type	-5 ~ 60 °C
Feature	Single junction
Cable Length	5 in 1 electrode
Connector	Special for pH/EC80
Application	General measurement

**② IP-600-1N**

pH Range	0 ~ 14 pH
Temperature Range	-5 ~ 110 °C
Reference Type	Double junction
Pressure Tolerance	0 ~ 500 psig (at 25 °C)
Feature	Glass electrode
Cable Length	20 m
Connector	BNC or Y type connector
Application	High pressure, viscous material. Normal temperature fermentation

**③ IP-600-9 PT/TH**

pH Range	0 ~ 14 pH
Temperature Range	0 ~ 80 °C
Reference Type	Double junction
Pressure Tolerance	0 ~ 500 psig (at 25 °C)
Feature	Durable PPS housing and glass sensor
Cable Length	5 m or other
Connector	BNC or other
Application	Wastewater, sewage treatment

**④ IP-600-15N PT/TH**

pH Range	0 ~ 14 pH
Temperature Range	0 ~ 60 °C
Reference Type	Single junction
Pressure Tolerance	0 ~ 100 psig (at 25 °C)
Feature	Durable PPS housing and glass sensor
Cable Length	5 m or other
Connector	BNC or other
Application	Wastewater, sewage treatment

**⑤ IP-600-10**

pH Range	0 ~ 14 pH
Temperature Range	0 ~ 80 °C
Reference Type	Double junction
Pressure Tolerance	0 ~ 100 psig (at 25 °C)
Feature	Durable PPS housing and glass sensor
Cable Length	20 m or other
Connector	BNC or other
Application	Wastewater, sewage treatment

**⑥ IP-600-3CN PT/TH**

pH Range	2 ~ 12 pH
Temperature Range	0 ~ 60 °C
Reference Type	Single junction
Pressure Tolerance	0 ~ 100 psig (at 25 °C)
Temp. Compensation	Pt100 (IP-600-3CPT), TH10K (IP-600-3CTH)
Feature	Durable PPS housing and glass sensor
Cable Length	5 m or other
Connector	BNC or other
Application	Pure water treatment

**⑦ IP-600-3C**

pH Range	2 ~ 12 pH
Temperature Range	0 ~ 60 °C
Reference Type	Single junction
Pressure Tolerance	0 ~ 100 psig (at 25 °C)
Feature	Durable PPS housing and glass sensor
Cable Length	20 m or other
Connector	BNC or other
Application	Pure water treatment



①



②



③



④

### ① 600S-ORP

pH Range	-2000 ~ 2000 mV
Temperature Range	0 ~ 80 °C
Reference Type	Single junction
Feature	Epoxy housing, planar electrode (platinum sensor)
Cable Length	1 m or other
Connector	BNC or other
Application	Applied to redox testing

### ② 600L-ORP

pH Range	±1999 mV
Temperature Range	0 ~ 80 °C
Reference Type	Single junction
Feature	Glass electrode (platinum band sensor)
Cable Length	1 m or other
Connector	BNC or other
Application	Applied to redox testing

### ③ IR-500-9N

pH Range	-1000 ~ 1000 mV
Temperature Range	0 ~ 80 °C
Reference Type	Single junction
Pressure Tolerance	0 ~ 100 psig (at 25 °C)
Feature	Durable PPS housing and platinum band sensor
Cable Length	20 m or other
Connector	BNC or other
Application	Swimming pool, wastewater, sewage treatment

### ④ IR-500-8

pH Range	-2000 ~ 2000 mV
Temperature Range	0 ~ 80 °C
Reference Type	Double junction
Pressure Tolerance	0 ~ 100 psig (at 25 °C)
Feature	Durable PPS housing and platinum band sensor
Cable Length	5m or other
Connector	BNC or other



## ① 101C

Conductivity Range	50.0 uS/cm to 200.0 mS/cm
Temperature Range	0 ~ 80 °C
Cell Constant	K=0.475
Feature	4-wire electrode. Graphite sensor
Cable Length	1 m
Connector	8 pin
Application	High-precision routine testing and measurement of high-concentration dielectric conductivity

## ② 106A/L

Conductivity Range	0 ~ 30 mS/cm
Temperature Range	5 ~ 90 °C
Cell Constant	K=1.0
Feature	2-wire electrode, platinum sensor
Cable Length	1 m
Connector	4 pin / 8 pin
Application	General liquid measurement

## ③ 107A/N

Conductivity Range	0 ~ 200 mS/cm
Temperature Range	0 ~ 80 °C
Cell Constant	K=1.0
Feature	Epoxy housing, platinum sensor
Cable Length	3 m
Connector	4 pin / 8 pin
Application	High conductivity liquid measurement

## ④ 109A/L/P

Conductivity Range	0 ~ 200 uS/cm
Temperature Range	0 ~ 80 °C
Cell Constant	K=1.0
Feature	Glass Housing, platinum sensor
Cable Length	1 m
Connector	4 pin / 8 pin
Application	Low conductivity liquid measurement

## ⑤ 3020P / 3840P

Conductivity Range	50.0 uS/cm ~ 200.0 mS/cm
Temperature Range	0 ~ 80 °C
Cell Constant	K=0.475
Feature	4-wire electrode. Graphite sensor
Cable Length	1 m
Connector	6 pin
Application	General water treatment

## ⑥ 330P

Conductivity Range	0.00 ~ 20.00 mS/cm
Temperature Range	0 ~ 60 °C
Feature	2-wire electrode, temperature compensation
Connector	Special for EC330
Application	General water measurement

## ⑦ 331P

Conductivity Range	0 ~ 200 uS/cm
Temperature Range	0 ~ 60 °C
Feature	2-wire electrode, temperature compensation
Connector	Special for EC331
Application	Pure water measurement

## ⑧ 392-126

Conductivity Range	0 ~ 200 uS/cm
Temperature Range	0 ~ 100 °C
Cell Constant	K=0.1
Pressure Tolerance	100 psig (at 25 °C)
Feature	2-wire electrode, temperature compensation
Cable Length	5 m or other
Connector	3/4" NPT
Application	Pure water treatment



①



②



③



④



⑤



⑥

### ① 392-125

Conductivity Range	0 ~ 10 mS/cm
Temperature Range	0 ~ 100 °C
Cell Constant	K=1
Pressure Tolerance	100 psig (at 25 °C)
Feature	Industrial EC probe, 10K thermistor
Cable Length	5 m or other
Connector	3/4" NPT
Application	General water treatment

### ② 392-122

Conductivity Range	0 ~ 20uS/cm
Temperature Range	0 ~ 100 °C
Cell Constant	K=0.01
Pressure Tolerance	100 psig (at 25 °C)
Feature	Industrial EC probe, 10K thermistor
Cable Length	5 m or other
Connector	3/4" NPT
Application	Pure water treatment

### ③ EC621-01 / EC621-001

Conductivity Range	0.5 ~ 200 uS/cm (EC621-01) 0.05 ~ 20 uS/cm (EC621-001)
Temperature Range	0 ~ 140 °C
Cell Constant	K=0.1 K=0.01
Pressure Tolerance	0 ~ 150 psig (at 135 °C)
Feature	2-wire electrode
Cable Length	5 m
Connector	3/4" NPT
Application	Boiler, pure water treatment

### ④ EC621-1 / EC621-10

Conductivity Range	0.01 ~ 2.0 mS/cm 1 ~ 200 mS/cm
Temperature Range	0 ~ 80 °C
Cell Constant	K=1 K=10
Pressure Tolerance	0 ~ 70 psig (at 25 °C)
Feature	2-wire electrode
Cable Length	5 m
Connector	3/4" NPT
Application	Boiler, pure water treatment

### ⑤ EC621-05

Conductivity Range	50 uS/cm ~ 200 mS/cm
Temperature Range	0 ~ 80 °C
Cell Constant	K=0.475
Pressure Tolerance	0 ~ 100 psig (25 °C)
Feature	4-wire electrode
Cable Length	5 m
Connector	3/4" NPT
Application	Surface water, sewage and seawater

### ⑥ 25-Series

Conductivity Range	0 ~ 200 uS/cm (25-0.1) 0.01 ~ 20 mS/cm (25-1.0) 0.1 ~ 200 mScm (25-10)
Temperature Range	0 ~ 80 °C
Cell Constant	K=1 K=10
Feature	2-wire electrode
Cable Length	10 m
Connector	3/4" NPT
Application	Recycling water and high concentration water





① LD-900-7

DO Range	0 ~ 20.00 mg/L (ppm) or 0 ~ 200.0%
Response Time	30 secs to attain 95% of actual reading
Feature	EPOXY housing. Gold and Ag sensor
Cable Length	1m
Connector	8 pin
Application	Ordinary water, river or sewage

② LD-900-10 / LD-900-11

DO Range	0~20.00 mg/L (ppm) or 0~200.0%
Response Time	30 secs to attain 95% of actual reading (at25°C)
Feature	Polarographic. Gold and Ag sensor
Cable Length	4 m or other
Connector	8 pin / 6 pin
Application	Ordinary water, river or sewage

③ LSDO-4

DO Range	0~20.00 mg/L (ppm) or 0~200.0%
Response Time	30 secs to attain 95% of actual reading (at25°C)
Feature	Luminescent Dissolved Oxygen electrode. Temperature compensation
Cable Length	4 m
Connector	4 pin
Application	Ordinary water, river or sewage

④ OXYSENS 120

DO Range	0~40 ppm (mg/L)
Response Time	60 secs to attain 98% of actual reading
Pressure Tolerance	0~4bar
Feature	Polarographic. Stainless housing
Cable Length	5 m or other
Thread	PG 13.5
Application	Aquaculture, wastewater, sewage

⑤ 007N

Dimensions	Arm: 455 mm Base: 159mm (Diameter)
Material	ABS and cast-iron
Application	Holding up to 5 standard electrodes

⑥ 007A

Dimensions	Arm: 455 mm Base: 159mm (Diameter)
Material	ABS and cast-iron
Application	Holding up to 5 standard electrodes



# Specifications

pH610B



ORP650B



TDS110B



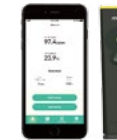
EC110B



EC111B



EC115B



Parameters	pH & Temp	ORP & Temp	TDS & Temp	Cond & TDS & Salt Temp	Cond & TDS & Salt Temp	Cond & TDS & Salt Temp
Range	0.00 ~ 14.00 pH	±1000 mV	0 ~ 4000 mg/L	0 ~ 2000 µS/cm (Cond) 0 ~ 2000 mg/L (TDS) 0 ~ 1000 ppm (mg/L) (Salt)	0.00 ~ 20.00 mS/cm (Cond) 0.00 ~ 20.00 g/L (TDS) 0.00 ~ 10.00 ppt (g/L) (Salt)	0.0 ~ 100.0 uS/cm (Cond) 0.0 ~ 100.0 mg/L (TDS) 0.0 ~ 50.0 ppm (mg/L) (Salt)
Resolution	0.01 pH	1 mV	20 mg/L	10 uS/cm (Cond) 10 mg/L (TDS) 5 ppm (mg/L) (Salt)±1% F.S.	0.10 mS/cm (Cond) 0.10 g /L (TDS) 0.05 ppt (g/L) (Salt)	0.5 µS/cm (Cond) 0.5 mg /L (TDS) 0.3 ppm (mg/L) (Salt)
Accuracy	±0.05 pH	±1% F.S.	±1% F.S.	±1% F.S.	±1% F.S. < 10 mS/cm (Cond) ±2% F.S. ≥ 10 mS/cm (Cond) ±1% F.S. < 10 g/L (TDS) ±2% F.S. ≥ 10 g/L(TDS) ±1% F.S. < 5 ppt (g/L) (Salt) ±2% F.S. ≥ 5 ppt (g/L) (Salt)	±1% F.S.
Temp Range	0.0 ~ 50°C ( 32.0~122°F)	0.0 ~ 50°C ( 32.0~122°F)	0.0 ~ 50°C ( 32.0~122°F)	0.0 ~ 50°C ( 32.0~122°F)	0.0 ~ 50°C ( 32.0~122°F)	0.0 ~ 50°C ( 32.0~122°F)
Temp Resolution	0.1°C / 0.2 °F	0.1°C / 0.2 °F	0.1°C / 0.2 °F	0.1°C / 0.2 °F	0.1°C / 0.2 °F	0.1°C / 0.2 °F
Temp Accuracy	±0.5 °C / ±1 °F	±0.5 °C / ±1 °F	±0.5 °C / ±1 °F	±0.5 °C / ±1 °F	±0.5 °C / ±1 °F	±0.5 °C / ±1 °F
Calibration	Up to 3 points	1 point	1 point	1 point	1 point	1 point
Input Impedance	3 X 10 <sup>11</sup> Ω	NA	NA	NA	NA	NA
TDS Factor	NA	0.3 to 1.0	0.3 to 1.0	0.3 to 1.0	0.3 to 1.0	0.3 to 1.0
Electrode	Gel-filled,single junction	Platinum	Titanium rods	Titanium rods	Titanium rods	Titanium rods
Power Supply	AAA X 2	AAA X 2	AAA X 2	AAA X 2	AAA X 2	AAA X 2
Battery Life	100 hrs	100 hrs	100 hrs	100 hrs	100 hrs	100 hrs
Dimensions	163 X 44 X 20 mm	163 X 44 X 20 mm	163 X 44 X 20 mm	163 X 44 X 20 mm	163 X 44 X 20 mm	163 X 44 X 20 mm

# Wand N Series ( Non-Bluetooth )

pH610N



ORP650N



CON110N



CON111N



CON115N



TDS110N



TDS111N



TDS115N



Parameters	pH & Temp	ORP & Temp	Cond & Temp	Cond & Temp	Cond & Temp	TDS & Temp	TDS & Temp	TDS & Temp
Range	0.00 ~ 14.00 pH	±1000 mV	0 ~ 2000 µS/cm	0.00 ~ 20.00 mS/cm	0.0 ~ 100.0 µS/cm	0 ~ 2000 mg/L	0.00 ~ 10.00 g/L	0.0 ~ 50.0 mg/L
Resolution	0.01 pH	1 mV	10 µS/cm	0.10 mS/cm	0.5 µS/cm	10 mg/L	0.05 g/L	0.3 mg/L
Accuracy	±0.05 pH	±3 mV	±1% F.S.	±1% F.S. < 10 mS/cm ±2% F.S. ≥ 10 mS/	±1% F.S.	±1% F.S.	±1% F.S. < 5 g/L ±2% F.S. ≥ 5 g/L	±1% F.S.
Temp Range	0.0 ~ 50°C (32.0~122°F)	0.0 ~ 50°C (32.0~122°F)	0.0 ~ 50°C (32.0~122°F)	0.0 ~ 50°C (32.0~122°F)	0.0 ~ 50°C (32.0~122°F)	0.0 ~ 50°C (32.0~122°F)	0.0 ~ 50°C (32.0~122°F)	0.0 ~ 50°C (32.0~122°F)
Temp Resolution	0.1 °C or (≤ 99.9 ° F, 0.2°F; > 99.9 ° F, 1 °F)	0.1 °C or (≤ 99.9 ° F, 0.2°F; > 99.9 ° F, 1 °F)	0.1 °C or (≤ 99.9 ° F, 0.2°F; > 99.9 ° F, 1 °F)	0.1 °C or (≤ 99.9 ° F, 0.2°F; > 99.9 ° F, 1 °F)	0.1 °C or (≤ 99.9 ° F, 0.2°F; > 99.9 ° F, 1 °F)	0.1 °C or (≤ 99.9 ° F, 0.2°F; > 99.9 ° F, 1 °F)	0.1 °C or (≤ 99.9 ° F, 0.2°F; > 99.9 ° F, 1 °F)	0.1 °C or (≤ 99.9 ° F, 0.2°F; > 99.9 ° F, 1 °F)
Temp Accuracy	±0.5 °C / ±1 °F	±0.5 °C / ±1 °F	±0.5 °C / ±1 °F	±0.5 °C / ±1 °F	±0.5 °C / ±1 °F	±0.5 °C / ±1 °F	±0.5 °C / ±1 °F	±0.5 °C / ±1 °F
Calibration	Up to 2 points	NA	1 point	1 point	1 point	1 point	1 point	1 point
Input Impedance	3 X 10 <sup>11</sup> Ω	NA	NA	NA	NA	NA	NA	NA
TDS Factor	NA	NA	NA	NA	NA	0.5	0.5	0.5
Screen	Segment LCD	Segment LCD	Segment LCD	Segment LCD	Segment LCD	Segment LCD	Segment LCD	Segment LCD
Electrode	Gel-filled, single junction	Platinum	Titanium rods	Titanium rods	Titanium rods	Titanium rods	Titanium rods	Titanium rods
Power Supply	LR 44 X 4	LR 44 X 4	LR 44 X 4	LR 44 X 4	LR 44 X 4	LR 44 X 4	LR 44 X 4	LR 44 X 4
Battery Life	150 hrs	150 hrs	100 hrs	100 hrs	100 hrs	100 hrs	100 hrs	100 hrs
Dimensions	163 X 44 X 20 mm	163 X 44 X 20 mm	163 X 44 X 20 mm	163 X 44 X 20 mm	163 X 44 X 20 mm	163 X 44 X 20 mm	163 X 44 X 20 mm	163 X 44 X 20 mm

pH/EC80



pH630



pH618N



pH619



ORP628N



EC330



EC331



Parameters	pH & Cond & TDS & Salt Temp	pH & Temp	pH & Temp	pH & Temp	pH & Temp	Cond & TDS & Temp	Cond & Resistivity & Temp
Range	0.00 ~ 14.00 pH (pH) 0μS/cm ~ 20.00 mS/cm (Cond) 0 mg/L ~ 20.00 g/L (TDS) 0.0 ~ 10.0 ppt (Salt)	0.00 ~ 14.00 pH	0.00 ~ 14.00 pH	0.00 ~ 14.00 pH	±1100 mV	0 μS/cm ~ 20.00 mS/cm (Cond) 0 mg/L~10.00 g/L (TDS)	0.1 μS/cm ~199.0 μS/cm (Cond) 1.0~20.0 MΩ (Resistivity)
Resolution	0.01 pH (pH) 1 μS/cm, 0.01 mS/cm (Cond) 1 mg/L, 0.01 g/L (TDS) 0.1 ppt (Salt)	0.01 pH (pH)	0.01 pH (pH)	0.01 pH (pH)	1 mV	5 μS/cm, 0.05 mS/cm, 0.10 mS/cm (Cond) 5 mg/L, 0.05 g/L, 0.10 g/L (TDS)	0.1 μS/cm, 0.5 μS/cm, 1.0 μS/cm (Cond) 0.1 MΩ (Resistivity)
Accuracy	±0.01 pH (pH) ±1% F.S. (Cond) ±1% F.S. (TDS) ±1% F.S. (Salt)	±0.02 pH ± 1 digit	±0.01 pH	±0.02 pH ± 1 digit	±1 mV ± 1 digit	±1% F.S.	±1% F.S.
Temp Range	-5.0 ~ 60 °C ( 23 ~ 140 °F )	-9.9 ~ 99.9 °C ( 14.2~212 °F )	0.0 ~ 99.9 °C	-10.0 ~ 100.0 °C ( 14.0~212.0°F )	-10.0 ~ 100.0 °C ( 14.0~212.0°F )	0.0 ~ 99.5 °C ( 32 ~ 212 °F )	0.0 ~ 99.5 °C ( 32 ~ 212 °F )
Temp Resolution	0.1 °C ( 0.1 °F )	0.1 °C or ( ≤ 99.9 °F, 0.2°F; > 99.9 °F, 1 °F )	0.1 °C	0.1 °C	0.1 °C ( 0.2 °F )	0.5 °C ( 1 °F ) ±	0.5 °C ( 1 °F ) ±
Temp Accuracy	±0.5 °C ( ±0.9 °F )	±0.3 °C or ( ≤ 99.9 °F, 0.2°F; > 99.9 °F, 1 °F )	±0.1 °C	±0.1 °C	±0.3 °C ( ±0.6 °F )	±0.5 °C ( ±1 °F )	±0.5 °C ( ±1 °F )
Calibration	Up to 3 points (pH) , 1 point (Cond)	Up to 3 points	Up to 3 points	Up to 3 points	1 point	1 point	1 point
Input Impedance	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω	NA	NA	NA
Reference Temperature	15.0 ~ 25.0 °C	NA	NA	NA	NA	25 °C	25 °C
Temperature Coefficient	0.00% ~ 4.00%	NA	NA	NA	NA	1.91%/ °C	1.91%/ °C
TDS Factor	0.30 ~ 1.00	NA	NA	NA	NA	0.50	0.50
Screen	Graphic LCD	Segment LCD	Graphic LCD	Graphic LCD	Graphic LCD	Segment LCD	Segment LCD
Data Memory	50	NA	50	50	50	NA	NA
Waterproof	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Power Supply	LR 44 X 4	LR 44 X 4	LR 44 X 4	LR 44 X 4	LR 44 X 4	LR 44 X 4	LR 44 X 4
Battery Life	50 hrs	200 hrs	200 hrs	200 hrs	200 hrs	100 hrs	100 hrs
Dimensions	200 X 44 X 25 mm	200 X 44 X 25 mm	200 X 44 X 25 mm	200 X 44 X 25 mm	200 X 44 X 25 mm	200 X 44 X 25 mm	200 X 44 X 25 mm

Legacy Tester Series



Parameters	pH	pH	ORP	Cond	Cond	Cond	TDS	Cond
Range	0.00 ~ 14.0 pH	0.00 ~ 14.0 pH	±999 mV	10 ~1990 µS/cm	0.1 ~ 19.9 mS/cm	1 ~ 199 µS/cm	10 ~ 1990 ppm	0.0 ~ 99.9 µS/cm
Resolution	0.01 pH	0.01 pH	1 mV	10 µS/cm	0.1 mS/cm	1 µS/cm	10 ppm	0.1 µS/cm
Accuracy	±0.2 pH	±0.1 pH	±0.2% ± 1 mV	±2% F.S.	±2% F.S.	±2% F.S.	±2% F.S.	±2% F.S.
Temp Range	NA	0 ~ 60 °C	NA	0 ~ 55 °C	0 ~ 55 °C	0 ~ 55 °C	0 ~ 55 °C	0 ~ 55 °C
Calibration	1 point	2 points	1 point	1 point	1 point	1 point	1 point	1 point
Input Impedance	3 X 10 <sup>11</sup> Ω	3 X 10 <sup>11</sup> Ω	NA	NA	NA	NA	NA	NA
TDS Factor	NA	NA	NA	NA	NA	NA	0.5	NA
Screen	Segment LCD	Segment LCD	Segment LCD	Segment LCD	Segment LCD	Segment LCD	Segment LCD	Segment LCD
Electrode	Gel-filled,single junction	Gel-filled,single junction	Platinum	Titanium rods	Titanium rods	Titanium rods	Titanium rods	Titanium rods
Power Supply	LR 44 X 4	LR 44 X 4	LR 44 X 4	LR 44 X 4	LR 44 X 4	LR 44 X 4	LR 44 X 4	LR 44 X 4
Battery Life	1000 hrs	200 hrs	400 hrs	200 hrs	200 hrs	200 hrs	200 hrs	200 hrs
Dimensions	158 X 34 X 17 mm	158 X 34 X 17 mm	158 X 34 X 17 mm	158 X 34 X 17 mm	158 X 34 X 17 mm	158 X 34 X 17 mm	158 X 34 X 17 mm	158 X 34 X 17 mm



Parameters	6177N	6177B	3177N	3177B	6377B	6179	6179B
Range	pH / ORP / Temp -2.00 ~ 16.00 pH (pH) ±1999.9 mV (ORP)	pH / ORP / Temp -2.00 ~ 16.00 pH (pH) ±1999.9 mV (ORP)	Cond / TDS / Salt / Temp 000 µS/cm ~ 200.0 mS/cm (Cond) 0.000 mg/L ~ 200.0 g/L (TDS) 0.0 ~ 70.0 ppt (Salt)	Cond / TDS / Salt / Temp 000 µS/cm ~ 200.0 mS/cm (Cond) 0.000 mg/L ~ 200.0 g/L (TDS) 0.0 ~ 80.0 ppt (Salt)	pH / ORP / Cond / TDS / Salt / Temp -2.00 ~ 16.00 pH (pH) ±1999.9 mV (ORP) 000 µS/cm ~ 200.0 mS/cm (Cond) 0.000 mg/L ~ 200.0 g/L (TDS)	pH / ORP / Temp / ION -2.00 ~ 16.00 pH (pH) ±1999.9 mV (ORP) 0.01 ~ 2000 conc. (ION)	pH / ORP / Temp / ION -2.00 ~ 16.00 pH (pH) ±1999.9 mV (ORP) 0.01 ~ 2000 conc. (ION)
Resolution	0.01 pH (pH) 1 mV (ORP)	0.01 pH (pH) 1 mV (ORP)	0.001 µS/cm, 0.01 µS/cm, 0.1 µS/cm, 1 µS/cm, 0.01 mS/cm, 0.1 mS/cm (Cond) 0.001 mg/L, 0.01 mg/L, 0.1 mg/L, 1 mg/L, 0.01 g/L, 0.1 g/L (TDS) 0.1 ppt (Salt)	0.01 µS/cm, 0.1 µS/cm, 1 µS/cm, 0.01 mS/cm, 0.1 mS/cm (Cond) 0.01 mg/L, 0.1 mg/L, 1 mg/L, 0.01 g/L, 0.1 g/L (TDS) 0.1 ppt (Salt)	0.01 pH (pH) / 0.1 mV (ORP) 0.01 µS/cm, 0.1 µS/cm, 1 µS/cm, 0.01 mS/cm, 0.1 mS/cm (Cond) 0.01 mg/L, 0.1 mg/L, 1 mg/L, 0.01 g/L, 0.1 g/L (TDS) 0.1 ppt (Salt)	0.01 pH (pH) 0.1 mV (ORP) 0.01, 0.1 or 1 conc. (ION)	0.01 pH (pH) 0.1 mV (ORP) 0.01, 0.1 or 1 conc. (ION)
Accuracy	±0.01 pH (pH) ±0.05% F.S. (ORP)	±0.01 pH (pH) ±0.05% F.S. (ORP)	±0.5% F.S.	±0.5% F.S.	±0.01 pH (pH) ±0.05% F.S. (ORP) ±0.5% F.S. (EC)	±0.01 pH (pH) ±0.2 mV (±199.9 mV), ±1 mV (beyond ±200.0mV) (ORP) ±0.5% F.S. (mono-valent), ±1.0% F.S. (di-valent) (ION)	±0.01 pH (pH) ±0.2 mV (±199.9 mV), ±1 mV (beyond ±200.0mV) (ORP) ±0.5% F.S. (mono-valent), ±1.0% F.S. (di-valent) (ION)
Temp Range	0.0 ~ 100.0 °C	-10.0 ~ 120.0 °C	0.0 ~ 100.0 °C	-10.0 ~ 120.0 °C	-10.0 ~ 120.0 °C	0.0 ~ 100.0 °C	-10.0 ~ 120.0 °C
Temp Resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Temp Accuracy	±0.2 °C	±0.2 °C	±0.2 °C	±0.2 °C	±0.2 °C	±0.2 °C	±0.2 °C
Calibration	Up to 3 points (pH)	Up to 5 points (pH) ±150 mV (ORP)	1 point	1 point	Up to 5 points (pH) ±150 mV (ORP) 1 point (Cond)	Up to 5 points (pH) ±150 mV (ORP)	Up to 5 points (pH) ±150 mV (ORP)
pH Buffer Recognition	USA, NIST	USA, NIST	NA	NA	USA, NIST	USA, NIST	USA, NIST
ATC	Auto and manual	Auto and manual	Auto and manual	Auto and manual	Auto and manual	Auto and manual	Auto and manual
Cell Constant	NA	NA	0.01, 0.10, 1.00, 10.0 (2 Wire)	0.475 (4 Wire), 0.1 (2 Wire)	0.475 (4 Wire), 0.1 (2 Wire)	NA	NA
Input Impedance	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω	NA	NA	1 X 10 <sup>12</sup> Ω	3 X 10 <sup>12</sup> Ω	3 X 10 <sup>12</sup> Ω
Reference Temperature	NA	NA	15.0 ~ 25.0 °C	15.0 ~ 25.0 °C	15.0 ~ 25.0 °C	NA	NA
Temperature Coefficient	NA	NA	0.00% ~ 4.00%	0.00% ~ 4.00%	0.00% ~ 4.00%	NA	NA
TDS Factor	NA	NA	0.30 ~ 1.00	0.30 ~ 1.00	0.30 ~ 1.00	NA	NA
Screen	Segment LCD backlight	Segment LCD backlight	Segment LCD backlight	Segment LCD backlight	Segment LCD backlight	Segment LCD backlight	Segment LCD backlight
Connectivity	NA	Bluetooth	NA	Bluetooth	Bluetooth	NA	Bluetooth
GLP	NA	Yes	NA	Yes	Yes	NA	Yes
Power Supply	100 ~ 240 VAC adapter or AAA x 6	100~240VAC adapter or AAAx6	100 ~ 240 VAC adapter or AAA x 6	100~240 VAC adapter or AAA x 6	100 ~ 240 VAC adapter or AAA x 6	100 ~ 240 VAC adapter or AAA x 6	100~240 VAC adapter or AAA x6
Dimensions	150 X 210 X 45 mm	150 X 210 X 45 mm	150 X 210 X 45 mm	150 X 210 X 45 mm	150 X 210 X 45 mm	150 X 210 X 45 mm	150 X 210 X 45 mm

6175



3175 (3175-307A)



3175-307



Parameters	pH & ORP & Temp	Cond & TDS & Temp	Cond & Temp
Range	0.00 ~ 14.00 pH (pH) ±1999.9 mV (ORP)	0.000 µS/cm ~ 200.0 mS/cm (Cond) 0.000 mg/L ~ 200.0 g/L (TDS)	0.000 µS/cm ~ 200.0 mS/cm
Resolution	0.01 pH (pH) 0.1 mV (ORP)	0.001 µS/cm, 0.01 µS/cm, 0.1 µS/cm, 1 µS/cm, 0.01 mS/cm, 0.1 mS/cm (Cond) 0.001 mg/L, 0.01 mg/L, 0.1 mg/L, 1 mg/L, 0.01 g/L, 0.1 g/L (TDS)	0.001 µS/cm, 0.01 µS/cm, 0.1 µS/cm, 1 µS/cm, 0.01 mS/cm, 0.1 mS/cm
Accuracy	±0.01 pH (pH) ± 0.4 mV (-1500.0 ~ 1500.0), ± 1 mV (-1999.9 ~ -1500.0 and 1500.0 ~ 1999.9 mV) (ORP)	±0.5% F.S.	±0.5% F.S.
Temp Range	0.0 ~ 100.0 °C	0.0 ~ 100.0 °C	0.0 ~ 100.0 °C
Temp Resolution	0.1 °C	0.1 °C	0.1 °C
Temp Accuracy	±0.2 °C	±0.2 °C	±0.2 °C
Calibration	Up to 3 points	1 point	1 point
pH Buffer Recognition	USA, NIST	NA	NA
ATC	Auto and manual	Auto and manual	Auto and manual
Cell Constant	NA	0.01, 0.10, 1.00, 10.0 (2 Wire)	0.01, 0.10, 1.00, 10.0 (2 Wire)
Input Impedance	1 X 10 <sup>12</sup> Ω	NA	NA
Reference Temperature	NA	15.0 ~ 25.0 °C	15.0 ~ 25.0 °C
Temperature Coefficient	NA	0.00% ~ 4.00%	0.00% ~ 4.00%
TDS Factor	NA	0.30 ~ 1.00	NA
Screen	Segment LCD backlight	Segment LCD backlight	Segment LCD backlight
Power Supply	100 ~ 240 VAC adapter or AAA x 6	100 ~ 240 VAC adapter or AAA x 6	100 ~ 240 VAC adapter or AAA x 6
Dimensions	150 X 203 X 72 mm	150 X 203 X 72 mm	150 X 203 X 72 mm



6173 / 6173R



3173 / 3173R



9173 / 9173R



6219N



Parameters	pH & ORP & Temp	Cond & TDS & Salt Temp	DO & DO% saturation & Temp	pH & ORP & Ion & Temp
Range	-6.00 ~ 20.00 pH (pH) ±2000 mV (ORP)	0.00 µS/cm ~ 200.0 mS/cm (Cond) 0.00 ppm ~ 100.0 ppt (TDS) 0.0 ~ 80.0 ppt (Salt)	0.00 ~ 20.00 ppm (DO) 0.0 ~ 200.0% (DO% saturation)	-2.000 ~ 16.000 pH (pH) ±1999.9 mV (ORP) 0.00 ~ 119.8 conc (Ion)
Resolution	0.01 pH (pH) 1 mV (ORP)	0.01 µS/cm, 0.1 µS/cm, 1 µS/cm, 0.01 mS/cm, 0.1 mS/cm (Cond) 0.01 mg/L, 0.1 mg/L, 1 mg/L, 0.01 g/L, 0.1 g/L (TDS) / 0.1 ppt (Salt)	0.01 ppm (DO) 0.1% (DO% saturation)	0.001 pH, 0.01pH (pH) 0.1 mV, 1 mV (ORP) 0.05, 0.1, 0.2 conc (Ion)
Accuracy	±0.01 pH (pH) ±0.05% F.S. (ORP)	±0.5% F.S. (Cond) ±0.5% F.S. (TDS) ±1% F.S. (Salt) -10.0 ~ 120.0 °C	±0.2% F.S.	±0.1% F.S. ± 1digit (pH) ±0.1% F.S. ± 1digit (ORP) ±2 digits (Ion)
Temp Range	-10.0 ~ 120.0 °C	-10.0 ~ 120.0 °C	-6.0 ~ 50.0 °C	-5.0 ~ 125.0 °C
Temp Resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Temp Accuracy	±0.3 °C	±0.5 °C	±0.3 °C	±0.5 °C
Calibration	2 points	1 point	1 point	2 points
pH Buffer Recognition	USA, NIST	NA	NA	USA or NIST
ATC	Auto and manual	Auto	Auto	Auto and manual
Cell Constant	NA	0.10, 1.00, 10.0 (2 Wire)	Polarographic	NA
Input Impedance	1 X 10 <sup>12</sup> Ω	NA	NA	1 X 10 <sup>12</sup> Ω
Reference Temperature	NA	15.0 ~ 25.0 °C	NA	NA
Temperature Coefficient	NA	0.00% ~ 4.00%	NA	NA
TDS Factor	NA	0.5	NA	NA
Pressure compensation	NA	NA	600 ~ 1100 mbar	NA
Salinity compensation	NA	NA	0.0 ~ 40.0 ppt	NA
Screen	Segment LCD	Segment LCD	Segment LCD	Segment LCD
Connectivity	RS-232 (Only 6173R)	RS-232 (Only 3173R)	RS-232 (Only 9173R)	RS-232
Power Supply	100 ~ 240 VAC adapter or AA x 6	100 ~ 240 VAC adapter or AA x 6	100 ~ 240 VAC adapter or AA x 6	100 ~ 240 VAC adapter or AA x 6
Dimensions	230 X 165 X 80 mm	230 X 165 X 80 mm	230 X 165 X 80 mm	250 X 240 X 100 mm

6011M



6011B



3011M



3021B



Parameters	pH & ORP & Temp	pH & ORP & Temp	Cond & TDS & Salt & Temp	Cond & TDS & Salt & Temp
Range	-2.00 ~ 16.00 pH ( pH ) ±1999 mV ( ORP )	-2.00 ~ 20.00pH ( pH ) ±2000mV ( ORP ) ±2000mV( Rel.mV )	0.000 µS/cm ~ 400.0 mS/cm ( Cond ) 0.000 mg/L ~ 400.0 g/L ( TDS ) 0.0 ~ 70.0 ppt ( Salt )	0.00 µS/cm ~ 200.0 mS/cm ( Cond ) 0.00 mg/L ~ 200.0 g/L ( TDS ) 0.0 ~ 70.0 ppt ( Salt )
Resolution	0.01 pH ( pH ) 1 mV ( ORP )	0.01 pH ( pH ) 1 mV ( ORP ) 1 mV ( Rel.mV )	0.001 µS/cm,0.01 µS/cm,0.1 µS/cm, 1 µS/cm, 0.01 mS/cm,0.1 mS/cm (Cond ) 0.001 mg/L,0.01 mg/L,0.1 mg/L, 1 mg/L,0.01 g/L,0.1 gL ( TDS ) 0.1 ppt ( Salt )	0.01 µS/cm, 0.1 µS/cm, 1 µS/cm, 0.01 mS/cm, 0.1 mS/cm ( Cond ) 0.01 mg/L, 0.1 mg/L, 1 mg/L, 0.01 g/L, 0.1 g/L ( TDS ) 0.1 ppt ( Salt )
Accuracy	±0.01 pH ( pH ) ±0.1% F.S. ( ORP )	±0.01 pH ( pH ) ±0.1% F.S. ( ORP ) ±0.1% F.S. ( Rel.mV )	±0.5% F.S.	±0.5% F.S.
Temp Range	-10.0 ~ 120.0 °C	-10.0 ~ 120.0 °C	-10.0 ~ 90.0 °C	-10.0 ~ 120.0 °C
Temp Resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Temp Accuracy	±0.3 °C	±0.3 °C	±0.3 °C	±0.3 °C
Calibration	2 points ( pH )	Up to 5 points ( pH ) ±150 mV ( ORP )	1 point	1 point
pH Buffer Recognition	USA , NIST	USA , NIST	NA	NA
ATC	Auto and manual	Auto and manual	Auto	Auto and manual
Cell Constant	NA	NA	0.10, 1.00, 10.0 ( 2 Wire )	0.475 ( 4 Wire ) , 0.1 ( 2 Wire )
Input Impedance	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω	NA	NA
Reference Temperature	NA	NA	15.0 ~ 25.0 °C	15.0 ~ 25.0 °C
Temperature Coefficient	NA	NA	0.00% ~ 4.00%	0.00% ~ 4.00%
TDS Factor	NA	NA	0.30 ~ 1.00	0.30 ~ 1.00
Pressure Compensation	NA	NA	NA	NA
Salinity Compensation	NA	NA	NA	NA
Screen	Segment LCD	Segment LCD	Segment LCD	Segment LCD
Connectivity	NA	Bluetooth, USB	NA	Bluetooth, USB
Data Memory	50	250 GLP	50	250 GLP
Auto Shut Off	10 Mins	10, 20, 30 Mins	10 Mins	10, 20, 30 Mins
Battery Life	800 hrs	120 hrs	200 hrs	100 hrs
Power Supply	9V Battery	2 X 14500 rechargeable batteries	9V Battery	2 X 14500 rechargeable batteries
Waterproof	IP67	IP67	IP67	IP67
Dimensions	214 x 74 x 42 mm 216 X 80 X 50 mm ( Have jacket )	214 x 74 x 42 mm 216 X 80 X 50 mm ( Have jacket )	214 x 74 x 42 mm 216 X 80 X 50 mm ( Have jacket )	214 x 74 x 42 mm 216 X 80 X 50 mm ( Have jacket )

9011M



9011B



9031M



9031B



Parameters	DO & DO% saturation & Temp	DO & DO% saturation & Temp	DO & DO% saturation & Temp	DO & DO% saturation & Temp
Range	0.00 ~ 20.00 mg/L ( DO ) 0.0 ~ 200.0% ( DO% saturation )	0.00 ~ 50.00 mg/L ( DO ) 0.0 ~ 500.0% ( DO% saturation )	0.00 ~ 20.00 mg/L ( DO ) 0.0 ~ 200.0% ( DO% saturation )	0.00 ~ 20.00 mg/L ( DO ) 0.0 ~ 200.0% ( DO% saturation )
Resolution	0.01 mg/L ( DO ) 0.1% ( DO% saturation )	0.01 mg/L ( DO ) 0.1% ( DO% saturation )	0.01 mg/L ( DO ) 0.1% ( DO% saturation )	0.01 mg/L ( DO ) 0.1% ( DO% saturation )
Accuracy	±0.5% F.S.	± 0.5% F.S. ( only meter ), 0~ 20 mg/L, ± 2% of the reading or ±0.2 mg/L, whichever is greater; 20 ~ 50 mg/L, ± 6% of the reading ( DO ) 0 ~ 200% DO% saturation, ± 2% of the reading or ±2% DO% saturation, whichever is greater; 200 ~ 500% DO% saturation, ± 6% of the reading ( DO% saturation )	±1.5% reading or ±1.5 mg/L , whichever is greater ( DO ) ±1.5% reading or ±1.5% DO% saturation, whichever is greater ( DO% saturation )	±1.5% reading or ±1.5 mg/L , whichever is greater ( DO ) ±1.5% reading or ±1.5% DO% saturation, whichever is greater ( DO% saturation )
Temp Range	-6.0 ~ 46.0 °C	-6.0 ~ 46.0 °C	0.0 ~ 50.0 °C	0.0 ~ 50.0 °C
Temp Resolution	0.1°C	0.1°C	0.1°C	0.1°C
Temp Accuracy	±0.3°C	±0.3°C	±0.3°C	±0.3°C
Calibration	1 point	1 point	Up to 2 points	Up to 2 points
pH Buffer Recognition	NA	NA	NA	NA
ATC	Auto	Auto	Auto 0.0 ~ 45.0 °C	Auto 0.0 ~ 45.0 °C
Cell Constant	Polarographic	Polarographic	optical	optical
Input Impedance	NA	NA	NA	NA
Reference Temperature	NA	NA	NA	NA
Temperature Coefficient	NA	NA	NA	NA
TDS Factor	NA	NA	NA	NA
Pressure Compensation	600 ~ 1100 mbar ( hPa )	600 ~ 1100 mbar ( hPa )	500 ~ 1125 mbar ( hPa )	500 ~ 1125 mbar ( hPa )
Salinity Compensation	0.0 ~ 40.0 ppt ( g/L )	0.0 ~ 40.0 ppt ( g/L )	0.0 ~ 40.0 ppt ( g/L )	0.0 ~ 40.0 ppt ( g/L )
Screen	Segment LCD	Segment LCD	Segment LCD	Segment LCD
Connectivity	NA	Bluetooth, USB	NA	Bluetooth, USB
Data Memory	50	250 GLP	50	250 GLP
Auto Shut Off	30 Mins	30 Mins	45 Mins	10, 20, 30 Mins
Battery Life	250 hrs	120 hrs	50 hrs	50 hrs
Power Supply	9V Battery	2 X 14500 rechargeable batteries	9V Battery	2 X 14500 rechargeable batteries
Waterproof	IP67	IP67	IP67	IP67
Dimensions	214 x 74 x 42 mm 216 X 80 X 50 mm ( Have jacket )	214 x 74 x 42 mm 216 X 80 X 50 mm ( Have jacket )	214 x 74 x 42 mm 216 X 80 X 50 mm ( Have jacket )	214 x 74 x 42 mm 216 X 80 X 50 mm ( Have jacket )

6010M



6010N



3010M



3020M



9010M



9030M



Parameters	pH & ORP & Temp	pH & ORP & Temp	Cond & TDS & Salt & Temp	Cond & TDS & Salt & Temp	DO & DO% saturation & Temp	DO & DO% saturation & Temp
Range	-2.00 ~ 16.00 pH (pH) ±1999 mV (ORP)	-2.00 ~ 16.00 pH (pH) ±1999 mV (ORP)	0.000 µS/cm~400.0 mS/cm (Cond) 0.000 mg/L~400.0 g/L (TDS) 0.0~70.0 ppt (Salt)	0.00 µS/cm ~ 200.0 mS/cm (Cond) 0.00 mg/L ~ 200.0 g/L (TDS) 0.0 ~ 70.0 ppt (Salt)	0.00 ~ 20.00 ppm (mg/L) (DO) 0.0 ~ 200.0% (DO% saturation)	0.00 ~ 20.00 mg/L (DO) 0.0 ~ 200.0% (DO% saturation)
Resolution	0.01 pH (pH) 1 mV (ORP)	0.01 pH (pH) 1 mV (ORP)	0.001 µS/cm, 0.01 µS/cm, 0.1 µS/cm, 1 µS/cm, 0.01 mS/cm, 0.1 mS/cm (Cond) 0.001 mg/L, 0.01 mg/L, 0.1 mg/L, 1 mg/L, 0.01 g/L, 0.1 g/L (TDS) 0.1 ppt (Salt)	0.01 µS/cm, 0.1 µS/cm, 1 µS/cm, 0.01 mS/cm, 0.1 mS/cm (Cond) 0.01 mg/L, 0.1 mg/L, 1 mg/L, 0.01 g/L, 0.1 g/L (TDS) 0.1 ppt (Salt)	0.01 ppm (mg/L) (DO) 0.1% (DO% saturation)	0.01 mg/L (DO) 0.1% (DO% saturation)
Accuracy	±0.01 pH (pH) ±0.1% F.S. ± 1digit (ORP)	±0.01 pH (pH) ±0.1% F.S. ± 1digit (ORP)	±0.5% F.S. (Cond) ±0.5% F.S. (TDS) ±0.2% F.S. (Salt)	±0.5% F.S. (Cond) ±0.5% F.S. (TDS) ±0.2% F.S. (Salt)	±0.5% F.S.	±1.5% reading or ±1.5 mg/L , whichever is greater (DO) ±1.5% reading or ±1.5%DO% saturation, whichever is greater (DO% saturation)
Temp Range	-10.0 ~ 120.0 °C	-10.0 ~ 120.0 °C	-10.0 ~ 90.0 °C	-10.0 ~ 90.0 °C	-6.0 ~ 46.0 °C	0.0 ~ 50.0 °C
Temp Resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Temp Accuracy	±0.5 °C	±0.5 °C	±0.2 °C or ±0.4% Full Scale, whichever is greater.	±0.2 °C or ±0.4% Full Scale, whichever is greater.	±0.3 °C ± 1 digit	±0.3 °C
Calibration	2 points	2 points	1 point	1 point	1 point	1 point
pH Buffer Recognition	USA , NIST	USA , NIST	NA	NA	NA	NA
ATC	Auto and manual	Auto and manual	Auto	Auto	Auto	Auto 0.0 ~ 45.0 °C
Cell Constant	NA	NA	0.10, 1.00, 10.0 ( 2 Wire )	0.475 ( 4 Wire ) , 0.1 ( 2 Wire )	Polarographic	optical
Input Impedance	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω	NA	NA	NA	NA
Reference Temperature	NA	NA	15.0 ~ 25.0 °C	15.0 ~ 25.0 °C	NA	NA
Temperature Coefficient	NA	NA	0.00% ~ 4.00%	0.00% ~ 4.00%	NA	NA
TDS Factor	NA	NA	0.30 ~ 1.00	0.30 ~ 1.00	NA	NA
Pressure Compensation	NA	NA	NA	NA	600 ~ 1100 mbar	500 ~ 1125 mbar
Salinity Compensation	NA	NA	NA	NA	0.0 ~ 40.0 ppt	0.0 ~ 40.0 ppt
Screen	Segment LCD	Segment LCD	Segment LCD	Segment LCD	Segment LCD	Segment LCD
Data Memory	50	NA	50	50	50	50
Auto Shut Off	30 Mins	30 Mins	30 Mins	30 Mins	45 Mins	45 Mins
Battery Life	1000 hrs	1000 hrs	200 hrs	200 hrs	250 hrs	50 hrs
Power Supply	9V Battery	9V Battery	9V Battery	9V Battery	9 V Battery	9 V Battery
Waterproof	IP65	IP65	IP65	IP65	IP65	IP65
Dimensions	70 X 198 X 37 mm	70 X 198 X 37 mm	70 X 198 X 37 mm	70 X 198 X 37 mm	70 X 198 X 37 mm	70 X 198 X 37 mm

6230M



6230N



6231M



6231N



Parameters	pH & ORP & Temp	pH & ORP & Temp	pH & ORP & Temp	pH & ORP & Temp
Range	-2.00 ~ 16.00 pH (pH) ±1999 mV (ORP)	-2.00 ~ 16.00 pH (pH) ±1999 mV (ORP)	-2.00 ~ 16.00 pH (pH) ±1999 mV (ORP)	-2.00 ~ 16.00 pH (pH) ±1999 mV (ORP)
Resolution	0.01 pH (pH) 0.1 mV (ORP)	0.01 pH (pH) 0.1 mV (ORP)	0.01 pH (pH) 0.1 mV (ORP)	0.01 pH (pH) 0.1 mV (ORP)
Accuracy	±0.01 pH (pH) ±0.05% F.S. (ORP)	±0.01 pH (pH) ±0.05% F.S. (ORP)	±0.01 pH (pH) ±0.05% F.S. (ORP)	±0.01 pH (pH) ±0.05% F.S. (ORP)
Temp Range	-10.0 ~ 120.0 °C	-10.0 ~ 120.0 °C	-10.0 ~ 120.0 °C	-10.0 ~ 120.0 °C
Temp Resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Temp Accuracy	±0.3 °C	±0.3 °C	±0.3 °C	±0.3 °C
Calibration	Up to 3 points (pH)	Up to 3 points (pH)	Up to 3 points (pH)	Up to 3 points (pH)
pH Buffer Recognition	USA , NIST	USA , NIST	USA , NIST	USA , NIST
ATC	Auto and manual	Auto and manual	Auto and manual	Auto and manual
Cell Constant	NA	NA	NA	NA
Input Impedance	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω
Reference Temperature	NA	NA	NA	NA
Temperature Coefficient	NA	NA	NA	NA
TDS Factor	NA	NA	NA	NA
Pressure Compensation	NA	NA	NA	NA
Salinity Compensation	NA	NA	NA	NA
Screen	Segment LCD	Segment LCD	Segment LCD	Segment LCD
Data Memory	40	NA	40	NA
Connectivity	RS-232	RS-232	NA	NA
Battery Life	400 hrs	400 hrs	400 hrs	400 hrs
Power Supply	100 ~ 240 VAC adapter or AAA x 6	100 ~ 240 VAC adapter or AAA x 6	100 ~ 240 VAC adapter or AAA x 6	100 ~ 240 VAC adapter or AAA x 6
Waterproof	IP65	IP65	IP65	IP65
Dimensions	86 X 241 X 72 mm	86 X 241 X 72 mm	86 X 241 X 72 mm	86 X 241 X 72 mm

6250



3250M



9250M



6360M



Parameters	pH & ORP & Ion & Temp	Cond & TDS & Salt & Temp	DO & DO% saturation & Temp	pH & ORP & Cond & TDS & Salt & Temp
Range	-2.000 ~ 16.000 pH (pH) ±1999.9 mV (ORP) 0.00 ~ 119.8 conc (Ion)	0.000 µS/cm ~ 300.0 mS/cm (Cond) 0.000 ppm ~ 300.0 ppt (TDS) 0.0 ~ 80.0 ppt (Salt)	0.00 ~ 50.00 ppm (DO) 0.0 ~ 500.0% (DO% saturation)	-2.00 ~ 16.00 pH (pH) ±1999 mV (ORP) 0.00 µS/cm ~ 200.0 mS/cm (Cond) 0.00 ppm ~ 200.0 ppt (TDS) 0.0 ~ 80.0 ppt (Salt)
Resolution	0.001 pH, 0.01 pH (pH) 0.1 mV, 1 mV (ORP) 0.05, 0.1, 0.2 conc (Ion)	0.001 µS/cm, 0.01 µS/cm, 0.1 µS/cm, 1 µS/cm, 0.01 mS/cm, 0.1 mS/cm (Cond) 0.001 ppm, 0.01 ppm, 0.1 ppm, 1 ppm, 0.01 ppt, 0.1 ppt (TDS) 0.1 ppt (Salt)	0.01 ppm (DO) 0.1% (DO% saturation)	0.01 pH (pH) 1 mV (ORP) 0.01 µS/cm, 0.1 µS/cm, 1 µS/cm, 0.01 mS/cm, 0.1 mS/cm (Cond) 0.01 ppm, 0.1 ppm, 1 ppm, 0.01 ppt, 0.1 ppt (TDS) 0.1 ppt (Salt)
Accuracy	±0.1% F.S. ± 1 digit (pH) ±0.1% F.S. ± 1 digit (ORP) ±2digits (Ion)	±0.5% F.S. (Cond) ±0.5% F.S. (TDS) ±1% F.S. (Salt)	±0.2% F.S.	±0.01pH ± 1 digit (pH) ±0.1% F.S. ± 1 digit (ORP) ±0.5% F.S. (Cond) ±0.5% F.S. (TDS)
Temp Range	-5.0 ~ 125 °C	-10.0 ~ 120.0 °C	-6.0 ~ 46.0 °C	-5.0 ~ 100.0 °C
Temp Resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Temp Accuracy	±0.5 °C	±0.2 °C	±0.1 °C ± 1 digit	±0.3 °C ± 1 digit
Calibration	2 points	1 point	1 point	Up to 2 points (pH) 1 point (Cond)
pH Buffer Recognition	USA, NIST	NA	NA	USA or NIST
ATC	Auto and manual	Auto	Auto	Auto
Cell Constant	NA	0.10, 1.00, 10.0 (2 Wire)	Polarographic	0.475 (4 Wire), 0.1 (2 Wire)
Input Impedance	1 X 10 <sup>12</sup> Ω	NA	NA	1 X 10 <sup>12</sup> Ω
Reference Temperature	NA	15.0 ~ 25.0 °C	NA	15.0 ~ 25.0 °C
Temperature Coefficient	NA	0.00% ~ 4.00%	NA	0.00% ~ 4.00%
TDS Factor	NA	0.300 ~ 1.000	NA	0.30 ~ 1.00
Pressure Compensation	NA	NA	600 ~ 1100 mbar	NA
Salinity Compensation	NA	NA	0.0 ~ 70.0 ppt	NA
Screen	Segment LCD	Segment LCD	Segment LCD	Segment LCD
Data Memory	NA	50	50	50
Connectivity	RS-232	RS-232	RS-232	RS-232
Battery Life	25 hrs	25 hrs	25 hrs	25 hrs
Power Supply	100 ~ 240 VAC adapter or AAA x 6	100 ~ 240 VAC adapter or AAA x 6	100 ~ 240 VAC adapter or AAA x 6	100 ~ 240 VAC adapter or AAA x 6
Waterproof	IP65	IP65	IP65	IP65
Dimensions	86 X 241 X 72 mm	86 X 241 X 72 mm	86 X 241 X 72 mm	86 X 241 X 72 mm

pH6810N



EC3840N



7810



Parameters	pH & ORP & Temp	Cond & TDS & Salt & Temp	Temp
Range	-2.00 ~ 16.00 pH (pH) ±1999 mV (ORP)	0.0 µS/cm ~ 200.0 mS/cm (Cond) 0.0 mg/L ~ 200.0 g/L (TDS) 0.0 ~ 70.0 ppt (Salt)	<b>J</b> : -328.0 °F ~ 2010 °F (-200.0 °C ~ 1099 °C) <b>K</b> : -328.0 °F ~ 2500 °F (-200.0 °C ~ 1371 °C) <b>T</b> : -328.0 °F ~ 752 °F (-200.0 °C ~ 400 °C)
Resolution	0.01 pH (pH) 1 mV (ORP)	0.1 µS/cm, 1 µS/cm, 0.01 mS/cm, 0.1 mS/cm (Cond) 0.1 mg/L, 1 mg/L, 0.01 g/L, 0.1 g/L (TDS) 0.1 ppt (Salt)	<b>J</b> : 0.1 °F (-328.0 °F ~ 392.0 °F); 1 °F (393 °F ~ 2010 °F); 0.1 °C (-200.0 °C ~ 200.0 °C); 1 °C (201 °C ~ 1099 °C) <b>K</b> : 0.1 °F (-328.0 °F ~ 392.0 °F); 1 °F (393 °F ~ 2500 °F); 0.1 °C (-200.0 °C ~ 200.0 °C); 0.1 °C (201 °C ~ 1371 °C) <b>T</b> : 0.1 °F (-328.0 °F ~ 392.0 °F); 1 °F (393 °F ~ 752 °F); 0.1 °C (-200.0 °C ~ 200.0 °C) 1 °C (201 °C ~ 400 °C)
Accuracy	±0.1% F.S. ± 2 digits (pH) ±0.1% F.S. ± 2 digits (ORP)	0.0 ~ 499.9 µS/cm (±1% of reading ± 2 µS/cm) (Cond) 500 ~ 4999 µS/cm (±1% of reading ± 5 µS/cm) (Cond) 5.00 ~ 49.99 mS/cm (±1% of reading ± 0.05 mS/cm) (Cond) 50.0 ~ 200.0 mS/cm (±2.5% of reading ± 0.5 mS/cm) (Cond) ±1% of reading (TDS) ±0.2% F.S. (Salt)	±0.1% F.S. ± 1.4 °F ±0.1% F.S. ± 0.7 °C
Temp Range	-10.0 ~ 120.0 °C	-10.0 ~ 90.0 °C	NA
Temp Resolution	0.1 °C	0.1 °C	NA
Temp Accuracy	±0.5 °C	±0.2 °C or ±0.4% F.S., whichever is greater.	NA
Calibration	2 or 3 points	1 point	NA
pH Buffer Recognition	USA, NIST	NA	NA
ATC	Auto and manual	Auto	NA
Cell Constant	NA	0.475 (4 Wire)	NA
Input Impedance	1 X 10 <sup>12</sup> Ω	NA	NA
Reference Temperature	NA	15.0 ~ 25.0 °C	NA
Temperature Coefficient	NA	0.00% ~ 4.00%	NA
TDS Factor	NA	0.30 ~ 1.00	NA
Screen	Segment LCD	Segment LCD	Segment LCD
Data Memory	NA	NA	NA
Auto Shut Off	NA	NA	NA
Battery Life	1000 hrs	400 hrs	500 hrs
Power Supply	AAA X 4	AAA X 4	AAA X 4
Waterproof	IP67	IP67	IP67
Dimensions	75 X 157 X 35 mm	75 X 157 X 35 mm	75 X 157 X 35 mm

378 KC / KF / JC / JF



765 KC / KF / JC / JF / TC / TF / PTAC / PTAFA / PTBC / PTBF



768 KC-02 / KF-02 / JC-02 / JF-02



701 KC / KF / JC / JF / TC / TF



Parameters	Temp	Temp	Temp	Temp
Range	<b>KC</b> : 0 ~ 1000 °C <b>KF</b> : 0 ~ 1999 °F <b>JC</b> : 0 ~ 550°C <b>JF</b> : 0 ~ 1000 °F	<b>KC</b> : -105 °C ~ 1372 °C <b>KF</b> : -157 °F ~ 1999 °F <b>JC</b> : -210 °C ~ 760 °C <b>JF</b> : -346 °F ~ 1400 °F <b>TC</b> : -105 °C ~ 400 °C <b>TF</b> : -157 °F ~ 752 °F <b>PTAC</b> : -50.0 °C ~ 199.9 °C <b>PTAFA</b> : -58.0 °F ~ 199.9 °F <b>PTBC</b> : -5.0 °C ~ 850 °C <b>PTBF</b> : -58 °F ~ 1562 °F	<b>KC - 02</b> : -20 °C ~ 390 °C <b>KF - 02</b> : -2 °F ~ 752 °F <b>JC - 02</b> : 0 °C ~ 220 °C <b>JF - 02</b> : 32 °F ~ 428 °F	<b>KC</b> : -50 °C ~ 800 °C <b>KF</b> : -50 °F ~ 1000 °F <b>JC</b> : -50 °C ~ 700 °C <b>JF</b> : -50 °F ~ 1200 °F <b>TC</b> : -50 °C ~ 400 °C <b>TF</b> : -100 °F ~ 700 °F
Resolution	1 °C , 1 °F	1 °C , 1 °F	1 °C , 1 °F	1 °C , 1 °F
Accuracy	<b>KC</b> : ±0.5% F.S. ± 1 digit <b>KF</b> : ±0.5% F.S. ± 1 digit <b>JC</b> : ±0.4% F.S. ± 1 digit <b>JF</b> : ±0.4% F.S. ± 1 digit	<b>KC</b> : ±0.5% F.S. ± 1 digit <b>KF</b> : ±0.5% F.S. ± 1 digit <b>JC</b> : ±0.4% F.S. ± 1 digit <b>JF</b> : ±0.4% F.S. ± 1 digit	<b>KC - 02</b> : ±0.2% of reading ± 1 °C <b>KF - 02</b> : ±0.2% of reading ± 1.8 °F <b>JC - 02</b> : ±0.2% of reading ± 1 °C <b>JF - 02</b> : ±0.2% of reading ± 1.8 °F	±0.25% F.S. ±1 digit
Temperature Sensor	K, J	K, J	K, J	K, J
Screen	LED	LED	LED	Segment LCD
Control	1 Relay ( Proportional control )	1 Relay ( Proportional control )	NA	NA
Relay Output(Resistive load only)	8 A at 115 VAC, 4A at 230 VAC	8 A at 115 VAC, 4A at 230 VAC	NA	NA
Analog Output	Analog voltage output 1 mV / 1 digit	Analog voltage output 1 mV / 1 digit	Analog voltage output 1 mV / 1 digit	NA
Power Supply	115 or 230 VAC , ±10% 50/60 Hz	115 or 230 VAC , ±10% 50/60 Hz	115 or 230 VAC , ±10% 50/60 Hz	9 V Battery
Dimensions	96 X 48 X 105 mm	96 X 48 X 105 mm	96 X 48 X 105 mm	77 X 60 X 30 mm



3621



3631



3651



3661



3321



Parameters	pH & ORP & Temp	pH & ORP & Temp	pH & ORP & Temp	pH & ORP & Temp	Cond & Resistivity & Temp
Range	-2.00 ~ 16.00 pH (pH) ±1999 mV (ORP) ±2999 mV (Rel.mV)	-2.00 ~ 16.00 pH (pH) ±1999 mV (ORP) ±2999 mV (Rel.mV)	-2.00 ~ 16.00 pH (pH) ±1999 mV (ORP) ±2999 mV (Rel.mV)	-2.00 ~ 16.00 pH (pH) ±1999 mV (ORP) ±2999 mV (Rel.mV)	0.000 µS/cm ~ 19.99 mS/cm (Cond) 0.000 ~ 19.99 MΩ (Resistivity)
Resolution	0.01 pH (pH) 1 mV (ORP)	0.01 pH (pH) 1 mV (ORP) 1 mV (Rel.mV)	0.01 pH (pH) 1 mV (ORP) 1 mV (Rel.mV)	0.01 pH (pH) 1 mV (ORP) 1 mV (Rel.mV)	0.001 µS/cm, 0.01 µS/cm, 0.1 µS/cm, 1 µS/cm, 0.01 mS/cm (Cond) 0.001 MΩ, 0.01 MΩ (Resistivity)
Accuracy	±0.1% F.S. ± 1 digit (pH) ±0.1% F.S. ± 1 digit (ORP) ±0.1% F.S. ± 1 digit (Rel.mV)	±0.1% F.S. ± 1 digit (pH) ±0.1% F.S. ± 1 digit (ORP) ±0.1% F.S. ± 1 digit (Rel.mV)	±0.1% F.S. ± 1 digit (pH) ±0.1% F.S. ± 1 digit (ORP) ±0.1% F.S. ± 1 digit (Rel.mV)	±0.1% F.S. ± 1 digit (pH) ±0.1% F.S. ± 1 digit (ORP) ±0.1% F.S. ± 1 digit (Rel.mV)	±0.5% F.S. ± 1 digit
Temp Range	-10.0 ~ 120.0 °C 0.1 °C	-10.0 ~ 120.0 °C 0.1 °C	-10.0 ~ 120.0 °C 0.1 °C	-10.0 ~ 120.0 °C 0.1 °C	-10.0 ~ 120.0 °C
Temp Resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Temp Accuracy	±0.3 °C	±0.3 °C	±0.3 °C	±0.3 °C	±0.3 °C
Calibration	2 points (pH) / 1 point (ORP)	2 points (pH) / 1 point (ORP)	2 points (pH) / 1 point (ORP)	2 points (pH) / 1 point (ORP)	1 point
pH Buffer Recognition	USA , NIST	USA , NIST	USA , NIST	USA , NIST	NA
ATC	Auto and manual	Auto and manual	Auto and manual	Auto and manual	Auto and manual
Cell Constant	NA	NA	NA	NA	0.01, 0.10, 1.00 (2 Wire)
Input Impedance	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω	NA
Reference Temperature	NA	NA	NA	NA	25 °C
Temperature Coefficient	NA	NA	NA	NA	2.00 or 0.00%, user selectable.
Pressure Compensation	NA	NA	NA	NA	NA
Salinity Compensation	NA	NA	NA	NA	NA
Temperature Sensor	10 KΩ or PT1000	10 KΩ or PT1000	10 KΩ or PT1000	10 KΩ or PT1000	10 KΩ or PT1000
Screen	Segment LCD backlight	Segment LCD backlight	Segment LCD backlight	Segment LCD backlight	Segment LCD backlight
Control	2 Relay	NA	NA	2 Relay	2 Relay
Relay Output(Resistive load only)	5 A at 115 VAC or 2.5 A at 220 VAC	NA	NA	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC
Analog Output	NA	4 ~ 20 mA (isolated)	NA	4 ~ 20 mA (isolated)	NA
Current Output Max Load	NA	500 Ω	NA	500 Ω	NA
Digital Output	NA	NA	RS-485 Modbus	NA	NA
Power Supply	100 ~ 240 VAC , 50/60Hz	100 ~ 240 VAC , 50/60Hz	100 ~ 240 VAC , 50/60Hz	100 ~ 240 VAC , 50/60Hz	100 ~ 240 VAC , 50/60Hz
Waterproof	IP65	IP65	IP65	IP65	IP65
Dimensions	1/8 DIN case, depth 90 mm	1/8 DIN case, depth 90 mm	1/8 DIN case, depth 90 mm	1/8 DIN case, depth 90 mm	1/8 DIN case, depth 90 mm

3331



3351



3921



3931



3951



Parameters	Cond & Resistivity & Temp	Cond & Resistivity & Temp	DO & DO% saturation & Temp	DO & DO% saturation & Temp	DO & DO% saturation & Temp
Range	0.000 $\mu$ S/cm ~ 19.99 mS/cm ( Cond ) 0.000 ~ 19.99 M $\Omega$ ( Resistivity )	0.000 $\mu$ S/cm ~ 19.99 mS/cm ( Cond ) 0.000 ~ 19.99 M $\Omega$ ( Resistivity )	0.00 ~ 40.00 mg/L ( DO ) 0.0 ~ 400.0% ( Air saturation )	0.00 ~ 40.00 mg/L ( DO ) 0.0 ~ 400.0% ( DO% saturation )	0.00 ~ 40.00 mg/L ( DO ) 0.0 ~ 400.0% ( DO% saturation )
Resolution	0.001 $\mu$ S/cm, 0.01 $\mu$ S/cm, 0.1 $\mu$ S/cm, 1 $\mu$ S/cm, 0.01 mS/cm ( Cond ) 0.001 M $\Omega$ , 0.01 M $\Omega$ ( Resistivity )	0.001 $\mu$ S/cm, 0.01 $\mu$ S/cm, 0.1 $\mu$ S/cm, 1 $\mu$ S/cm, 0.01 mS/cm ( Cond ) 0.001 M $\Omega$ , 0.01 M $\Omega$ ( Resistivity )	0.01 mg/L ( DO ) 0.1% ( Air saturation )	0.01 mg/L ( DO ) 0.1% ( DO% saturation )	0.01 mg/L ( DO ) 0.1% ( DO% saturation )
Accuracy	$\pm$ 0.5% F.S. $\pm$ 1 digit	$\pm$ 0.5% F.S. $\pm$ 1 digit	$\pm$ 0.2% F.S.	$\pm$ 0.2% F.S.	$\pm$ 0.2% F.S.
Temp Range	-10.0 ~ 120.0 $^{\circ}$ C	-10.0 ~ 120.0 $^{\circ}$ C	-10.0 ~ 80.0 $^{\circ}$ C	-10.0 ~ 80.0 $^{\circ}$ C	-10.0 ~ 80.0 $^{\circ}$ C
Temp Resolution	0.1 $^{\circ}$ C	0.1 $^{\circ}$ C	0.1 $^{\circ}$ C	0.1 $^{\circ}$ C	0.1 $^{\circ}$ C
Temp Accuracy	$\pm$ 0.3 $^{\circ}$ C	$\pm$ 0.3 $^{\circ}$ C	$\pm$ 0.3 $^{\circ}$ C	$\pm$ 0.3 $^{\circ}$ C	$\pm$ 0.3 $^{\circ}$ C
Calibration	1 point	1 point	Up to 2 points	Up to 2 points	Up to 2 points
pH Buffer Recognition	NA	NA	NA	NA	NA
ATC	Auto and manual	Auto and manual	Auto and manual	Auto and manual	Auto and manual
Cell Constant	0.01, 0.10, 1.00 ( 2 Wire )	0.01, 0.10, 1.00 ( 2 Wire )	Polarographic	Polarographic	Polarographic
Input Impedance	NA	NA	NA	NA	NA
Reference Temperature	25 $^{\circ}$ C	25 $^{\circ}$ C	NA	NA	NA
Temperature Coefficient	2.00 or 0.00%, user selectable.	2.00 or 0.00%, user selectable.	NA	NA	NA
Pressure Compensation	NA	NA	600 ~ 4000 mbar	600 ~ 4000 mbar	600 ~ 4000 mbar
Salinity Compensation	NA	NA	0.0 ~ 49.9 ppt	0.0 ~ 49.9 ppt	0.0 ~ 49.9 ppt
Temperature Sensor	10 K $\Omega$	10 K $\Omega$	22 K $\Omega$	22 K $\Omega$	22 K $\Omega$
Screen	Segment LCD backlight	Segment LCD backlight	Segment LCD backlight	Segment LCD backlight	Segment LCD backlight
Control	NA	NA	2 Relay	2 Relay	NA
Relay Output(Resistive load only)	NA	NA	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC	NA
Analog Output	4 ~ 20 mA ( isolated )	NA	NA	NA	NA
Current Output Max Load	500 $\Omega$	NA	NA	NA	NA
Digital Output	NA	RS-485 Modbus	NA	NA	RS-485 Modbus
Power Supply	100 ~ 240 VAC , 50/60Hz	100 ~ 240 VAC , 50/60Hz	100 ~ 240 VAC , 50/60Hz	100 ~ 240 VAC , 50/60Hz	100 ~ 240 VAC , 50/60Hz
Waterproof	IP65	IP65	IP65	IP65	IP65
Dimensions	1/8 DIN case, depth 90 mm	1/8 DIN case, depth 90 mm	1/8 DIN case, depth 90 mm	1/8 DIN case, depth 90 mm	1/8 DIN case, depth 90 mm

3675



3676



3679N



691N



692



3671N



Parameters	pH & ORP	pH & ORP	pH & ORP	pH	pH	pH & ORP & Temp
Range	0.00 ~ 14.00 pH (pH) ±1999 mV (ORP)	0.00 ~ 14.00 pH (pH) ±1999 mV (ORP)	0.00 ~ 14.00 pH (pH) ±1999 mV (ORP)	0.00 ~ 14.00 pH	0.00 ~ 14.00 pH	0.0 ~ 14.0 pH (pH) ±1990 mV (ORP)
Resolution	0.01 pH (pH) 1 mV (ORP)	0.01 pH (pH) 1 mV (ORP)	0.01 pH (pH) 1 mV (ORP)	0.01 pH	0.01 pH	0.1 pH (pH) 10 mV (ORP)
Accuracy	±0.05 pH (pH) ±0.5% F.S. (ORP)	±0.05 pH (pH) ±0.5% F.S. (ORP)	±0.03 pH (pH) ±0.1% F.S. (ORP)	±0.05 pH	±0.05 pH	±0.1 pH ± 1 digit (pH) ±0.1% F.S. ± 1 digit (ORP)
Temp Range	0 ~ 100 °C	0 ~ 100 °C	0 ~ 100 °C	0 ~ 100 °C	0 ~ 100 °C	0 ~ 100 °C
Temp Resolution	NA	NA	NA	NA	NA	1 °C
Temp Accuracy	NA	NA	NA	NA	NA	±1 °C ± 1 digit
Calibration	Up to 2 points	Up to 2 points	Up to 2 points	Up to 2 points	Up to 2 points	Up to 2 points
pH Buffer Recognition	USA, NIST	USA, NIST	USA, NIST	USA, NIST	USA, NIST	USA, NIST
ATC	Auto	Auto	Auto	Manual	Auto	Auto
Temperature Sensor	PT100	PT100	PT100	NA	PT100	PT100
Screen	Segment LCD	LED	Segment LCD	LED	Segment LCD	LED
Control	2 Relay	2 Relay	2 Relay	NA	NA	2 Relay
Relay Output	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC	NA	NA	5 A at 115 VAC or 2.5 A at 220 VAC
Relay Output(Resistive load only)	4 ~ 20 mA (isolated)	4 ~ 20 mA (isolated)	4 ~ 20 mA (isolated)	4 ~ 20 mA (isolated)	4 ~ 20 mA (isolated)	NA
Analog Output	450 Ω	450 Ω	450 Ω	600 Ω	600 Ω	NA
Current Output Max Load	115 or 230 VAC, 50/60 Hz	115 or 230 VAC, 50/60 Hz	115 or 230 VAC, 50/60 Hz	115 or 230 VAC, 50/60 Hz	115 or 230 VAC, 50/60 Hz	115 or 230 VAC, 50/60 Hz
Power Supply	NA	NA	IP65	NA	NA	NA
Waterproof	96 X 96 X 119 mm	96 X 96 X 119 mm	96 X 96 X 119 mm	96 X 96 X 119 mm	96 X 96 X 119 mm	96 X 96 X 119 mm

6311



6313



6308PT



6308PTB



6312PT



Parameters	pH & ORP & Temp	pH & ORP & Temp	pH & Temp	pH & Temp	pH & Temp
Range	-2.00 ~ 16.00 pH (pH) ±2500 mV (ORP) ±6499 mV (Rel.mV)	-2.00 ~ 16.00 pH (pH) ±2500 mV (ORP) ±6499 mV (Rel.mV)	-2.00 ~ 16.00 pH	-2.00 ~ 16.00 pH	-2.00 ~ 16.00 pH
Resolution	0.01pH (pH) 1mV (ORP) 1mV (Rel.mV)	0.01pH (pH) 1mV (ORP) 1mV (Rel.mV)	0.01 pH	0.01 pH	0.01 pH
Accuracy	±0.1% of reading ± 1digits (pH) ±0.1% of reading ± 1digits (ORP) ±0.1% of reading ± 1digits (Rel.mV)	±0.1% of reading ± 1digits (pH) ±0.1% of reading ± 1digits (ORP) ±0.1% of reading ± 1digits (Rel.mV)	±0.01 pH ± 1 digits	±0.01 pH ± 1 digits	±0.01 pH ± 1 digits
Temp Range	-10.0 ~ 120.0 °C	-10.0 ~ 120.0 °C	-10.0 ~ 120.0 °C	-10.0 ~ 120.0 °C	-10.0 ~ 120.0 °C
Temp Resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Temp Accuracy	±0.1 °C ± 1 digit	±0.1 °C ± 1 digit	±0.1 °C ± 1 digit	±0.1 °C ± 1 digit	±0.1 °C ± 1 digit
Calibration	Up to 5 points (pH) 1 point (ORP)	Up to 5 points (pH) 1 point (ORP)	2 points	2 points	2 points
pH Buffer Recognition	USA , NIST	USA , NIST	USA , NIST	USA , NIST	USA , NIST
ATC	Auto	Auto	Auto	Auto	Auto
Cell Constant	NA	NA	NA	NA	NA
Input Impedance	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω
Reference Temperature	NA	NA	NA	NA	NA
Temperature Coefficient	NA	NA	NA	NA	NA
TDS Factor	NA	NA	NA	NA	NA
Pressure Compensation	NA	NA	NA	NA	NA
Salinity Compensation	NA	NA	NA	NA	NA
Temperature Sensor	10 KΩ, Balco 3 KΩ, PT1000	10 KΩ, Balco 3 KΩ, PT1000	10 KΩ	10 KΩ	10 KΩ
Screen	Segment LCD	Segment LCD	Graphic LCD backlight ( Chinese or English )	Graphic LCD backlight ( Chinese or English )	Graphic LCD backlight ( Chinese or English )
Control	4 Relay for pH, 1 Relay for Wash	2 Relay	4 Relay for pH, 1 Relay for Temp.	3 Relay for pH, 1 Relay for Temp.	3 Relay for pH, 1 Relay for Temp.
Relay output ( Resistive load only )	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC
Analog output	1 X 4 ~ 20 mA ( isolated )	1 X 4 ~ 20 mA ( isolated )	2 X 4 ~ 20 mA ( isolated )	2 X 4 ~ 20 mA ( isolated )	2 X 4 ~ 20 mA ( isolated )
Current output Max load	500 Ω	500 Ω	500 Ω	500 Ω	500 Ω
Digital Output	NA	NA	RS-485	RS-485	RS-485
Power Supply	115 or 230 VAC , 50/60 Hz	115 or 230 VAC , 50/60 Hz	115 or 230 VAC , 50/60 Hz	115 or 230 VAC , 50/60 Hz	115 or 230 VAC , 50/60 Hz
Waterproof	IP65	IP65	IP65	IP65	IP65
Dimensions	96 X 96 X 148 mm	96 X 96 X 148 mm	96 X 96 X 148 mm	96 X 96 X 148 mm	96 X 96 X 148 mm

6308CT



6308CTB



6312CT



6308CST



6308DT



Parameters	Cond & TDS & Temp	Cond & TDS & Temp	Cond & TDS & Temp	Cond & TDS & Temp	DO & DO% saturation & Temp
Range	0.000 $\mu\text{S}/\text{cm}$ ~ 300.0 $\text{mS}/\text{cm}$ ( Cond ) 0.000 ppm ~ 300.0 ppt ( TDS )	0.000 $\mu\text{S}/\text{cm}$ ~ 300.0 $\text{mS}/\text{cm}$ ( Cond ) 0.000 ppm ~ 300.0 ppt ( TDS )	0.000 $\mu\text{S}/\text{cm}$ ~ 300.0 $\text{mS}/\text{cm}$ ( Cond ) 0.000 ppm ~ 300.0 ppt ( TDS )	0 $\mu\text{S}/\text{cm}$ ~ 200.0 $\text{mS}/\text{cm}$ ( Cond ) 0.0 ~ 70.0 g/L ( Salt )	0.00 ~ 40.00 ppm ( DO ) 0.0 ~ 400.0% ( DO% saturation )
Resolution	0.001 $\mu\text{S}/\text{cm}$ , 0.01 $\mu\text{S}/\text{cm}$ , 0.1 $\mu\text{S}/\text{cm}$ , 1 $\mu\text{S}/\text{cm}$ , 0.01 $\text{mS}/\text{cm}$ , 0.1 $\text{mS}/\text{cm}$ ( Cond ) 0.001 ppm, 0.01 ppm, 0.1 ppm, 1 ppm, 0.01 ppt, 0.1 ppt ( TDS )	0.001 $\mu\text{S}/\text{cm}$ , 0.01 $\mu\text{S}/\text{cm}$ , 0.1 $\mu\text{S}/\text{cm}$ , 1 $\mu\text{S}/\text{cm}$ , 0.01 $\text{mS}/\text{cm}$ , 0.1 $\text{mS}/\text{cm}$ ( Cond ) 0.001 ppm, 0.01 ppm, 0.1 ppm, 1 ppm, 0.01 ppt, 0.1 ppt ( TDS )	0.001 $\mu\text{S}/\text{cm}$ , 0.01 $\mu\text{S}/\text{cm}$ , 0.1 $\mu\text{S}/\text{cm}$ , 1 $\mu\text{S}/\text{cm}$ , 0.01 $\text{mS}/\text{cm}$ , 0.1 $\text{mS}/\text{cm}$ ( Cond ) 0.001 ppm, 0.01 ppm, 0.1 ppm, 1 ppm, 0.01 ppt, 0.1 ppt ( TDS )	1 $\mu\text{S}/\text{cm}$ , 0.01 $\text{mS}/\text{cm}$ , 0.1 $\text{mS}/\text{cm}$ ( Cond ) 0.1 g/L ( Salt )	0.01 ppm ( DO ) 0.1% ( DO% saturation )
Accuracy	$\pm 0.5\%$ F.S. $\pm 1$ digit	$\pm 0.5\%$ F.S. $\pm 1$ digit	$\pm 0.5\%$ F.S. $\pm 1$ digit	$\pm 0.5\%$ F.S. $\pm 1$ digit	$\pm 0.2\%$ F.S.
Temp Range	-10.0 ~ 120.0 $^{\circ}\text{C}$	-10.0 ~ 120.0 $^{\circ}\text{C}$	-10.0 ~ 120.0 $^{\circ}\text{C}$	-10.0 ~ 120.0 $^{\circ}\text{C}$	-10.0 ~ 120.0 $^{\circ}\text{C}$
Temp Resolution	0.1 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$
Temp Accuracy	$\pm 0.3$ $^{\circ}\text{C}$	$\pm 0.3$ $^{\circ}\text{C}$	$\pm 0.3$ $^{\circ}\text{C}$	$\pm 0.3$ $^{\circ}\text{C}$	$\pm 0.1$ $^{\circ}\text{C}$
Calibration	1 point	1 point	1 point	1 point	Up to 2 points
pH Buffer Recognition	NA	NA	NA	NA	NA
ATC	Auto	Auto	Auto	Auto	Auto
Cell Constant	0.01, 0.10, 1.00, 10.0 ( 2 Wire )	0.01, 0.10, 1.00, 10.0 ( 2 Wire )	0.01, 0.10, 1.00, 10.0 ( 2 Wire )	0.475 ( 4 Wire )	Polarographic
Input Impedance	NA	NA	NA	NA	NA
Reference Temperature	10.0 ~ 29.0 $^{\circ}\text{C}$	10.0 ~ 29.0 $^{\circ}\text{C}$	10.0 ~ 29.0 $^{\circ}\text{C}$	10.0 ~ 29.0 $^{\circ}\text{C}$	NA
Temperature Coefficient	0.00 ~ 4.99%	0.00 ~ 4.99%	0.00 ~ 4.99%	0.00 ~ 4.99%	NA
TDS Factor	0.300 ~ 0.999	0.300 ~ 0.999	0.300 ~ 0.999	NA	NA
Pressure Compensation	NA	NA	NA	NA	600 ~ 400 mbar
Salinity Compensation	NA	NA	NA	NA	0 ~ 49.9 ppt
Temperature Sensor	10 K $\Omega$	10 K $\Omega$	10 K $\Omega$	10 K $\Omega$	22 K $\Omega$
Screen	Graphic LCD backlight ( Chinese or English )	Graphic LCD backlight ( Chinese or English )	Graphic LCD backlight ( Chinese or English )	Graphic LCD backlight ( Chinese or English )	Graphic LCD backlight ( Chinese or English )
Control	2 Relay for Cond, 1 Relay for Temp.	2 Relay	2 Relay	2 Relay for Cond, 1 Relay for Temp.	4 Relay for DO, 1 Relay for Temp.
Relay output ( Resistive load only )	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC
Analog Output	2 X 4 ~ 20 mA ( isolated )	2 X 4 ~ 20 mA ( isolated )	2 X 4 ~ 20 mA ( isolated )	1 X 4 ~ 20 mA ( isolated )	1 X 4 ~ 20 mA ( isolated )
Current output Max Load	500 $\Omega$	500 $\Omega$	500 $\Omega$	500 $\Omega$	500 $\Omega$
Digital Output	RS-485	RS-485	RS-485	RS-485 Modbus	RS-485 Modbus
Power Supply	115 or 230 VAC , 50/60 Hz	115 or 230 VAC , 50/60 Hz	115 or 230 VAC , 50/60 Hz	115 or 230 VAC , 50/60 Hz	115 or 230 VAC , 50/60 Hz
Waterproof	IP65	IP65	IP65	IP65	IP65
Dimensions	96 X 96 X 148 mm	96 X 96 X 148 mm	96 X 96 X 148 mm	96 X 96 X 148 mm	96 X 96 X 148 mm

6308DTB



6312DTF



6309POT



6309PDT



6308TuSS



6TX



Parameters	DO & DO% saturation & Temp	DO & DO% saturation & Temp	pH & ORP & Temp	pH & DO & DO% saturation & Temp	Turbidity & Suspended Solids	pH & ORP & Temp
Range	0 ~ 40000 ppb (DO) 0.0 ~ 400.0% (DO% saturation)	0 ~ 40000 ppb (DO) 0.0 ~ 400.0% (DO% saturation)	-2.00 ~ 16.00 pH (pH) ±2500 mV (ORP) ±6499 mV (Rel.mV)	-2.00 ~ 16.00 pH (pH) 0 ~ 60.00 ppm (DO) 0.0 ~ 500.0% (DO% saturation)	<b>TC-100</b> : 0.00 ~ 100.0 NTU (FNU) <b>TC-500</b> : 0.0 ~ 500.0 NTU (FNU) <b>TC-3000</b> : 0 ~ 3000 NTU (FNU) <b>TCS-1000</b> : 0.0 ~ 1000.0 mg/L <b>TS-MXS-A</b> : 0 ~ 50000 mg/L	-2.00 ~ 16.00 pH (pH) ±1000 mV (ORP)
Resolution	1 ppb (DO) 0.1% (DO% saturation)	1 ppb (DO) 0.1% (DO% saturation)	0.01 pH (pH) 1 mV (ORP) 1 mV (Rel.mV)	0.01 pH (pH) 0.01 ppm (DO) 0.1% (DO% saturation)	<b>TC-100</b> : 0.01NTU (FNU) <b>TC-500</b> : 0.1NTU (FNU) <b>TC-3000</b> : 1NTU (FNU) <b>TCS-1000</b> : 0.1mg/L <b>TS-MXS-A</b> : 1mg/L	0.01 pH (pH) 1 mV (ORP)
Accurac	±0.2% F.S.	±0.2% F.S.	±0.01 pH ± 1 digits (pH) ±0.2% F.S. (ORP) ±0.2% F.S. (Rel.mV)	±0.01 pH ± 1 digits (pH) ±0.2% F.S. (DO) ±0.2% F.S. (DO% saturation)	±3% F.S.	±0.01 pH (pH) ±1 mV (ORP)
Temp Range	-10.0 ~ 120.0 °C	-10.0 ~ 120.0 °C	-10.0 ~ 120.0 °C	-10.0 ~ 120.0 °C	NA	-10.0 ~ 120.0 °C
Temp Resolution	0.1°C	0.1 °C	0.1°C	0.1 °C	NA	0.1 °C
Temp Accuracy	±0.1 °C	±0.1 °C	±0.1 °C ± 1 digit	±0.1 °C	NA	±0.3 °C
Calibration	Up to 2 points	Up to 2 points	2 points (pH) 1 point (ORP)	2 points (pH) 1 point (DO)	Up to 5 points	Up to 2 points
pH Buffer Recognition	NA	NA	USA , NIST	USA , NIST	NA	USA , NIST
ATC	Auto	Auto	Auto	Auto	NA	Auto and manual
Cell Constant	Polarographic	Polarographic	NA	Polarographic	optical	NA
Input Impedance	NA	NA	1 X 10 <sup>12</sup> Ω	1 X 10 <sup>12</sup> Ω	NA	1 X 10 <sup>12</sup> Ω
Reference Temperature	NA	NA	NA	NA	NA	NA
Temperature Coefficient	NA	NA	NA	NA	NA	NA
TDS Factor	NA	NA	NA	NA	NA	NA
Pressure Compensation	600 ~ 4000 mbar	600 ~ 4000 mbar	NA	600 ~ 1100 mbar	NA	NA
Salinity Compensation	0.0 ~ 49.9 ppt	0.0 ~ 49.9 ppt	NA	0.0 ~ 49.9 ppt	NA	NA
Temperature Sensor	22 KΩ	22 KΩ	10 KΩ	22 KΩ	NA	Pt100, Pt1000, 3KΩ Balco, 10KΩ
Screen	Graphic LCD backlight (Chinese or English)	Graphic LCD backlight (Chinese or English)	Graphic LCD backlight (Chinese or English)	Graphic LCD backlight (Chinese or English)	Graphic LCD backlight (Chinese or English)	Segment LCD
Control	3 Relay for DO, 1 Relay for Temp	3 Relay for DO,1 Relay for Temp.	2 Relay for pH, 2 Relay for ORP, 1 Relay for Temp.	2 Relay for pH, 2 Relay for DO, 1 Relay for Temp.	2 Relay for Turbidity, 1 Relay for Wash	NA
Relay Output (Resistive load only)	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC	5 A at 115 VAC or 2.5 A at 220 VAC	NA
Analog Output	2 X 4 ~ 20 mA (isolated)	2 X 4 ~ 20 mA (isolated)	1 X 4 ~ 20 mA (isolated)	1 X 4 ~ 20 mA (isolated)	1 X 4 ~ 20 mA (isolated)	1 X 4 ~ 20 mA (isolated)
Current Output Max Load	500 Ω	500 Ω	500 Ω	500 Ω	500 Ω	500 Ω
Digital Output	RS-485	RS-485	RS-485 Modbus	RS-485 Modbus	RS-485 Modbus	NA
Power Supply	115 or 230 VAC , 50/60 Hz	115 or 230 VAC , 50/60 Hz	115 or 230 VAC , 50/60 Hz	115 or 230 VAC , 50/60 Hz	115 or 230 VAC , 50/60 Hz	12 ~ 36 VDC
Waterproof	IP65	IP65	IP65	IP65	IP65	IP65
Dimensions	96 X 96 X 148 mm	96 X 96 X 148 mm	96 X 96 X 148 mm	96 X 96 X 148 mm	96 X 96 X 148 mm	96 X 96 X 148 mm

pH3900



D03910



Parameters	pH	DO% saturation
Range	0.00 ~ 14.00 pH	0.0 ~ 200.0%
Resolution	0.01 pH	0.1%
Accuracy	±0.02 pH	±0.2%FS
Calibration	Up to 2 points	2 points
pH Buffer Recognition	USA , NIST	NA
ATC	Auto	NA
Input Impedance	1 X 10 <sup>12</sup> Ω	NA
Temperature Sensor	PT100	NA
Screen	Segment LCD	Segment LCD
Analog Output	4 ~ 20mA	4 ~ 20mA
Current Output Max Load	550 Ω	550 Ω
Power Supply	11 ~ 50 VDC	11 ~ 50 VDC
Waterproof	IP65	IP65
Dimensions	128 x 80 X 71 mm	128 x 80 X 71 mm

# JENCO

[WWW.JENCO.COM.TW](http://WWW.JENCO.COM.TW)

