Electrodes, Meters & Accessories for:

- pH
- ORP
- Chlorine
- Dissolved Oxygen
- Conductivity
- Ion Selective Electrodes
- Custom Electrodes
Van London-pHoenix Company (VL-PC) manufactures a wide variety of electrodes, sensors, assemblies and accessories for pH, Contacting Conductivity, Toroidal Conductivity, ORP, Dissolved Oxygen, Optical Dissolved Oxygen, Potentiostatic Chlorine, Karl Fischer, Ion-Specific and Custom Designs. Direct Replacements for Laboratory, Titration, Biotech, and Industrial applications are available for all major brands. VL-PC is the authorized exclusive distributor in the USA for the Knick product line of pH Meters, Dissolved Oxygen Meters, Conductivity Meters, Portable Meters, In-Line Retractables, In-Line Fittings, the digital MemoSens® Electrode, “UniCal™” system which is a perfect compliment to the VL-PC electrodes focusing on industrial markets offering Explosion Proof equipment satisfying up to Class 1 / Div 1 requirements.

With a complete machine shop and glass blowing shop we are capable of producing sensors that are designed for maximum performance in the harshest environments; we have a sizable inventory of sensors, analyzers, and meters available to expedite orders. Van London-pHoenix Company has been in business since 1961 and has a long history of dedication to R&D to produce new measurements and designs to enable our business partners access to a superior product.

VL–PC’s goal has remained the same: to consistently produce a high quality product that exceeds each client’s unique needs in a timely fashion at a reasonable cost. It is our desire not only to be a “vendor” but a “partner” working closely with you to promote success!
pH and ORP Epoxy Body Sensors

These economical electrodes are manufactured with chemically resistant epoxy which makes it excellent for use with portable meters or bench top meters in harsh applications. Durability, Accuracy and Economy are the key factors with these sensors. Options include Tuff-Tip™, Triode™ (with Temperature Compensation), Platinum and Gold ORP, Detachable Lead Wires, Custom Reference Solutions, Reduced Body Diameter and Numerous Connectors to mate to all commercially available meters. Available measurements are pH, ORP and Antimony.

pH

ORP

Triode™

Tuff-Tip™

pH, ORP, and ISE General Purpose Glass Body Sensors

These general purpose sensors are the backbone of any lab. Numerous options are available including Mono & Combination Electrodes, Calomel References, Sealed & Refillable References and various Reference Fill Solutions.

These electrodes incorporate the newest pH glass formulations and Reference technologies to produce faster response times, excellent stability and superior reproducibility, all at an affordable price. Direct Replacements are available for all major brands.
Numerous options are available including Sealed & Refillable References, Sleeve Junction, Side Arm Refill, Flat Tip and Reduced Tip, Detachable Leads and Numerous Reference Fill Solutions. Direct Replacements are available for all major brands. Please consult the factory for your specific needs.

pH and ORP Specialty Sensors

Many specialized sensors are also available including Sleeve Junction, Side Arm Refill, Spear Tip and Reduced Tip. Some of the options for these sensors are Calomel References, Sealed & Refillable References and Numerous Reference Fill Solutions. Direct Replacements are available for all major brands. Please consult the factory for your specific needs.

pH, ORP and Karl Fischer Sensors for Titrators

Numerous options are available including Sealed & Refillable References, Sleeve Junction, Side Arm Refill, Flat Tip and Reduced Tip, Detachable Leads and Numerous Reference Fill Solutions.

These electrodes incorporate the newest glass pH formulations and reference technologies to produce faster response times, excellent stability and superior reproducibility all at an affordable price. Direct Replacements are available for all major brands.
Currently we manufacture sensors for numerous specific ion measurements. These can be supplied with various options including Mono or Combination, Sealed or Refillable, Rebuildable Sensing Tips, Flushable Reference Junctions and Specialized Reference Electrodes to minimize interference. Direct Replacements are available for all major brands.

**ION Selective Sensors**

The *NEW* Low Level model NAB1502 Sodium ISE is designed to monitor sodium levels in the ppb range where conventional sodium electrodes are inaccurate. The monitoring of sodium at this level is essential in many applications especially in power plants where sodium impurities in the ppb range cause stress corrosion cracking in high pressure steam turbines and stainless steel generators.

**VL-PC currently offers the following Ion Selective Electrodes (ISE):**

- Ammonia (NH₃)
- Ammonium (NH₄⁺)
- Bromide (Br⁻)
- Cadmium (Cd²⁺)
- Calcium (Ca²⁺)
- Carbon Dioxide (CO₂)
- Chloride (Cl⁻)
- Copper (Cu²⁺)
- Cyanide (CN⁻)
- Fluoride (F⁻)
- Fluoroborate (BF₄⁻)
- Iodide (I⁻)
- Lead (Pb²⁺)
- Nitrate (NO₃⁻)
- Nitrogen Oxide (NOₓ)
- Perchlorate (ClO₄⁻)
- Potassium (K⁺)
- Silver (Ag⁺)
- Sodium (Na⁺)
- Sulfide (S²⁻)
- Surfactant
- Water Hardness

www.VL-PC.com  info@VL-PC.com  (800) 522-7920
Contacting Conductivity Sensors
We have a wide variety of options for Conductivity Sensors allowing for exact fit for any application. The body materials of construction include glass, epoxy, glass/epoxy and stainless steel. The contact materials include platinum, graphite and stainless steel. The contact configurations are 2, 3 or 4 electrodes with optional platinumized surface treatment. All are available with a wide range of Temperature Compensators, cell constants and connectors for compatibility with any meter.

Dissolved Oxygen Sensors
These sensors are available in Polarographic or Galvanic, Glass or Plastic Bodies with a variety of Cathode Options for compatibility with most major meter manufacturers.
The new Portavo meters are for use with analog or digital MemoSens® sensors. The multiparameter device is capable of use for pH, ORP, Conductivity, Oxygen and Optical Oxygen. With a graphical color display, IP66 Rating, USB port, programmable timed data logging and hazardous area approvals; the Portavo is suited for all applications from advanced R&D, benchtop daily use and field use. The clever screen protective cover/benchtop stand/field hook holder makes this meter very versatile. Its advanced software allows for electrode failure tracking and root cause determination.

MemoSuite®

MemoSuite® Software for MemoSens® Sensors
MemoSuite® Advanced is PC software for calibrating and managing MemoSens digital sensors. The sensors are connected via MemoLink and a USB port. MemoSuite® shows the pH, ORP, Oxygen and Conductivity measured values and a wide range of maintenance and diagnostic parameters. It also provides a complete log of calibrations, sterilizations and operation times and operates within accordance of FDA’s 21 CFR Part II requirements. Recording the sensor data clearly defines the replacement cycle and optimizes a maintenance strategy. Detailed reports can be exported to Excel. Statistics and calibrations data can be represented graphically.
Measure and record pH values in the lab or field using the PH-1*-VLC and a FREE app that provides real time display of pH, millivolts, ambient temperature and solution temperature.

Applications:
- **Environmental testing and monitoring**
  When used with a GPS enabled device, the pH Meter app will record where and when your measurements were taken.
- **Industrial**
  Suitable for any process where pH measurements are routinely performed. By recording the pH value with a time stamp and GPS location, this app eliminates any chance of mistakes when recording readings. Works with location aware devices to log the GPS co-ordinates where readings were taken for analysis and auditing purposes.

Specifications:
- pH Measuring Range: 0-14
- Displays both ambient and solution temperature
- Supports 1,2,3 or more calibration points
- Records measurements with timestamp and geographic coordinates (GPS Stamp)
- View data history by date or location
- Sends readings by e-mail (individual or .csv file)

Notes:
- iPhone®, iPad®, iPod® are Trademarks of Apple Inc., Registered in the U.S. and other countries.
- ™ Apple and Apple App Store are registered trademarks of Apple Inc.
- * Patent Pending on PH-1

Ordering Information:
- PH-1*-VLC - $200.00
  pH meter accessory for iPhone®, iPad®, iPod® (pH electrode sold separately, iPhone®, iPad®, iPod® not included)
- 577V701WA1-3BG - $180.00
  Glass Body pH Electrode, Refillable Reference, Rugged Membrane
- V-710J-3BG - $175.00
  Epoxy Body pH Electrode, Sealed Reference, Rugged Membrane

**pH Simulator / S250**
The S250 simulates pH or ORP signals that would normally be generated by the electrode. It can be used for troubleshooting to confirm that any pH or ORP meter is functioning correctly. This can also be used to certify a device prior to installation or batch. The S250 has outputs for 4, 7 and 10 pH and +700m and -700mV for ORP. It also has a High Meg ohm impedance option that is critical for simulating the high impedance of the pH glass and testing the amplification circuitry.
The pHlat™ is a true flat bulb with a 0-14 pH range. The low impedance of the glass formulation allows this shape to have fast response and stable readings with a 0-14 pH range. The pHlat™ bulb design is ideal for low volume samples either in a flow cell or 12mm design. In an industrial application with high flow and suspended solids the pHlat™ bulb supplies superior life due to reduced bulb abrading.

The 12mm pH bulb provides a huge surface area for faster response time and significantly improved stability. The best part is that the 12mm bulb uses an extra thick ruggedized membrane that is rated for 0-14 pH range and up to 130°C and all of this with a remarkable 10 mΩ bulb resistance.

Micro Flow Cells

The Van London - pHoenix Co. Flow Through Cell is available in a 6000 μl semi-micro, or 200 μl micro cell. This electrode system is designed for continuous pH measurements in the laboratory where low volume is required. The cell design makes it suitable for a variety of low flow applications which require micro sampling. The Flow Through Cells are available in borosilicate glass, 316L Stainless Steel and Ultem. These cells are designed to be steam sterilized in an autoclave with the electrode installed.
Custom Designs, R&D and Private Label

- Custom designs are available for customers with special needs.
- In house R&D services are available for new measurements and specialty projects.
- We currently have customers worldwide who use our private label and custom packaging option.

Sensor Options

- Lead free glass is available on most electrodes.
- Standard lead length for laboratory electrodes is 3 feet but other options are available.
- A large variety of connectors are available for compatibility with most meters.
- Several of the electrodes can be supplied with internal temperature compensation for ease of use.
- Sterilizable sensors are available for Pharmaceutical and Biotech applications.

VLR Electrodes
The new VLR sensor is designed for extreme precision and repeatability that is not available in conventional KCl/AgCl or calomel electrodes. This technology contains no mercury and is suitable for harsh environments including sulfides and large temperature surges while maintaining fast accurate readings. Conventional electrodes are susceptible to temperature errors that cannot be corrected for with a temperature compensator but that is not the case with the VLR. The VLR maintains high accuracy with temperature surges and is compatible with conventional pH meters. A wide variety of connectors are available to mate with most commercially available meters.

Flushing Junction Electrodes
The Flushing Junction Electrode is designed for use in solutions that can or will clog the reference junction causing false readings and eventually rendering the electrode useless. With the Flushing Junction one push and the junction is cleared of all debris and ready for use. This represents a huge cost savings and a significant improvement in accuracy. The Flushing Junction technology is available on a wide variety of electrode designs that can be used with most commercially available meters.
Accessories are available to complete the product offering and make us your one stop shop for all of your electro-chemical sensor needs.

- NIST-Traceable Buffers
- Wire / Connector adapters
- External temperature compensators
- Electrode cap to fit all needs
- Connectors to mate with any meter
- Bulb shapes for any application
- Solutions for reference, ISE and DO refill
- Solutions for Electrode storage
- Solutions for custom reference needs
- Solutions for ISE calibration
Laboratory Brochure

For additional information, contact us at:

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We Speak English, Spanish and Vietnamese

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