

Ion Selective Electrodes

OAKTON has a large selection of Ion Selective Electrodes (ISE) to suit a wide variety of applications. Each electrode has a typical response time of 20 to 30 seconds but will vary with solution concentration. All electrodes are refillable and include 15 mL of electrolyte and filling pipette. Solid state electrodes also include polishing strips. Gas sensing electrodes also include replacement membranes. OAKTON offers three electrode types: Membrane/Solid State, Gas Sensing, and Glass bulb.

NOTE: Electrodes do NOT include calibration standard or Ion Strength Adjusters (ISA)—These must be made by the user or purchased separately.

Electrode Types

Membrane and Solid State—There are three types of membrane and solid state electrodes

Economy epoxy body double-junction

- Outer reference chamber is silver-free—resists contamination
- Economy epoxy body double-junction



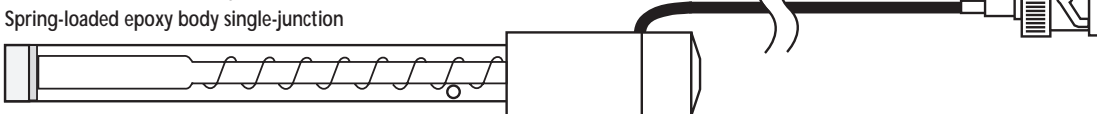
Glass body double-junction

- Improved seal—glass seal provides enhanced electrode performance and reliability
 - Outer reference chamber is silver-free—resists contamination
- Glass body double-junction



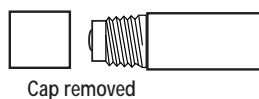
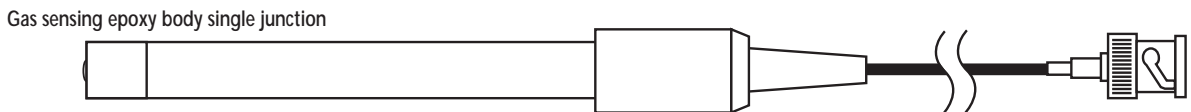
Spring-loaded single-junction

- Produces higher flow of electrolyte
 - Great for viscous fluids
 - Press cap to flush electrolyte—cleans/refreshes reference junction when flushed
- Spring-loaded epoxy body single-junction



Gas Sensing—single-junction, epoxy body

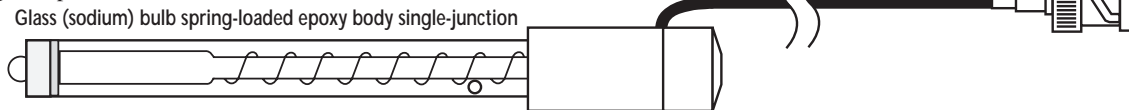
- Removable cap with membrane and fill solution
 - Gas diffuses across membrane until partial pressure of gas is equal on both sides. Sensor detects change in fill solution composition that is directly proportional to the concentration of gas
- Gas sensing epoxy body single junction



Cap removed

Glass (sodium) Bulb—epoxy body single-junction and glass body double-junction

- Glass bulb uses specially formulated glass specific for sodium ion measurement
- Glass (sodium) bulb spring-loaded epoxy body single-junction



Glass (sodium) bulb glass body double-junction



Solution Kits

Solution kits include reference electrolyte, ISA (ion strength adjuster), ion calibration standard, and filling pipette. Solution kits for solid state electrodes also include polishing strips. Solution kits for gas sensing electrodes also include replacement membranes.

Ion Selective Electrodes

Ammonia NH₃

This ISE features a gas sensing membrane. Measuring range is 1.0 to 5 x 10⁻⁷ M and 17,000 to 0.01 ppm. Interfering ions include volatile amines. Ideal for high purity power station water, fish tanks, sea water, waste water, plating baths, air/stack gases, and biological samples.

Temperature range: 0 to 50°C (32 to 122°F) **pH range:** above pH 11

Model. no.	Type	Price
WD-35802-00	Gas Sensing single-junction, epoxy body	

WD-35802-50 Ammonia NH₃ solution kit

WD-35803-50 ISA, 10 M NaOH, 5 x 100 mL bottles

WD-35803-01 Calibration solution,
1000 ppm NH₃ as nitrogen 475 mL

WD-35803-71 Replacement electrolyte,
0.1 M NH₄Cl, 60 mL

Ammonium NH₄⁺

These ISE feature polymer membrane sensors. Measuring range is 1.0 to 5 x 10⁻⁶ M and 18,000 to 0.1 ppm. Interfering ions include K⁺. Ideal for boiler feed water, natural water and fertilizers. User must supply calibration standard.

Temperature range: 0 to 50°C (32 to 122°F) **pH range:** 4 to 10 pH

Model. no.	Type	Price
WD-35812-02	Economy double-junction epoxy body	
WD-35802-02	Spring-loaded single-junction epoxy body	
WD-35802-03	Glass body double-junction	

WD-35802-52 Ammonium NH₄⁺ solution kit,
for single-junction ISE

WD-35802-53 Ammonium NH₄⁺ solution kit,
for double-junction ISE

WD-35803-53 ISA, 5 M NaCl, 475 mL

WD-35803-77 Replacement electrolyte for single-junction ISE,
0.1 M NaCl saturated with AgCl, 60 mL

WD-35803-78 Replacement electrolyte for double-junction ISE,
0.1 M NaCl, 60 mL

Bromide Br⁻

These ISE feature solid state sensors. Measuring range is 1.0 to 5 x 10⁻⁶ M and 79,000 to 0.4 ppm. Interfering ions include I⁻, CN⁻, S⁻², high Cl⁻ or high NH₃. Ideal for water, wine, soil, plant tissue, blood electrolytes and clinical analysis.

Temperature range: 0 to 80°C (32 to 176°F) **pH range:** 2 to 14 pH

Model. no.	Type	Price
WD-35812-04	Economy double-junction epoxy body	
WD-35802-04	Spring-loaded single-junction epoxy body	
WD-35802-05	Glass body double-junction	

WD-35802-54 Bromide Br⁻ solution kit,
for single-junction ISE

WD-35802-55 Bromide Br⁻ solution kit,
for double-junction ISE

WD-35803-51 ISA, 5 M NaNO₃, 475 mL

WD-35803-03 Calibration solution, 1000 ppm Br⁻, 475 mL

WD-35803-81 Replacement electrolyte for single-junction ISE,
1 M KNO₃ with 0.1 M KCl, 60 mL

WD-35803-75 Replacement electrolyte for double-junction ISE,
1 M KNO₃, 60 mL

Cadmium Cd⁺²

These ISE feature solid state sensors. Measuring range is 0.1 to 1 x 10⁻⁷ M and 11,200 to 0.01 ppm. Interfering ions include Ag⁺, Hg⁺², Cu⁺², high Pb⁺² or high Fe⁺². Ideal for plating baths. User must supply calibration standard.

Temperature range: 0 to 80°C (32 to 176°F) **pH range:** 2 to 12 pH

Model. no.	Type	Price
WD-35812-06	Economy double-junction epoxy body	
WD-35802-06	Spring-loaded single-junction epoxy body	
WD-35802-07	Glass body double-junction	

WD-35802-56 Cadmium Cd⁺² solution kit,
for single-junction ISE

WD-35802-57 Cadmium Cd⁺² solution kit,
for double-junction ISE

WD-35803-51 ISA, 5 M NaNO₃, 475 mL

WD-35803-81 Replacement electrolyte for single-junction ISE,
1 M KNO₃ with 0.1 M KCl, 60 mL

WD-35803-75 Replacement electrolyte for double-junction ISE,
1 M KNO₃, 60 mL

Calcium Ca⁺²

These ISE feature polymer membrane sensors. Measuring range is 1.0 to 5 x 10⁻⁶ M and 40,000 to 0.2 ppm. Interfering ions include Cu⁺², Hg⁺², Ni⁺² and Pb⁺². Ideal for water softening systems, boiler feed water, drinking/mineral water, blood electrolytes, clinical analysis, and food applications.

Temperature range: 0 to 50°C (32 to 122°F) **pH range:** 3 to 10 pH

Model. no.	Type	Price
WD-35812-08	Economy double-junction epoxy body	
WD-35802-08	Spring-loaded single-junction epoxy body	
WD-35802-09	Glass body double-junction	

WD-35802-58 Calcium Ca⁺² solution kit,
for single-junction ISE

WD-35802-59 Calcium Ca⁺² solution kit,
for double-junction ISE

WD-35803-52 ISA, 4 M KCl, 475 mL

WD-35803-05 Calibration solution, 1000 ppm Ca⁺², 475 mL

WD-35803-73 Replacement electrolyte for single-junction ISE,
4 M KCl saturated with AgCl, 60 mL

WD-35803-74 Replacement electrolyte for double-junction ISE,
4 M KCl, 60 mL

Carbon Dioxide CO₂ and Carbonate CO₃⁻²

This ISE features gas sensing membrane. Measuring range is 1 x 10⁻² to 1 x 10⁻⁴ M and 440 to 4.4 ppm. Interfering ions include volatile weak acids. Ideal for soft drinks/carbonated beverages, wine, fermentation processes, bacterial cultures.

Temperature range: 0 to 50°C (32 to 122°F) **pH range:** 4.8 to 5.2 pH

Model. no.	Type	Price
WD-35802-10	Gas Sensing single-junction, epoxy body	

WD-35802-60 Carbon Dioxide CO₂ and
Carbonate CO₃⁻² solution kit

WD-35803-55 ISA, 1 M Citrate Buffer, 475 mL

WD-35803-07 Calibration solution, 1000 ppm CO₂, 475 mL

WD-35803-70 Replacement electrolyte,
0.1 M NaHCO₃, 60 mL

NOTE: Electrodes do NOT include calibration standard or Ion Strength Adjusters (ISA)—These must be made by the user or purchased separately.

Chloride Cl⁻

These ISE feature solid state sensors. Measuring range is 1.0 to 5×10^{-5} M and 35,500 to 1.8 ppm. Interfering ions include OH⁻, S⁻², Br⁻, I⁻ and CN⁻. Ideal for river/tap water, plant tissue, soils, boiler feed water, blood electrolytes, clinical analysis, sweat, urine, cement, plating baths, and food samples.

Temperature range: 0 to 80°C (32 to 176°F) **pH range:** 2 to 12 pH

Model. no.	Type	Price
WD-35812-12	Economy double-junction epoxy body	
WD-35802-12	Spring-loaded single-junction epoxy body	
WD-35802-13	Glass body double-junction	

WD-35802-62 Chloride Cl⁻ solution kit, for single-junction ISE

WD-35802-63 Chloride Cl⁻ solution kit, for double-junction ISE

WD-35803-51 ISA, 5 M NaNO₃, 475 mL

WD-35803-09 Calibration solution, 1000 ppm Cl⁻, 475 mL

WD-35803-81 Replacement electrolyte for single-junction ISE, 1 M KNO₃ with 0.1 M KCl, 60 mL

WD-35803-75 Replacement electrolyte for double-junction ISE, 1 M KNO₃, 60 mL

Copper Cu⁺²

These ISE feature solid state sensors. Measuring range is 0.1 to 1×10^{-8} M and 6350 to 6.4×10^{-4} ppm. Interfering ions include Ag⁺², Hg⁺², high Cl⁻, Br⁻, Fe⁺² and Cd⁺². Ideal for plating baths and water.

Temperature range: 0 to 80°C (32 to 176°F) **pH range:** 2 to 12 pH

Model. no.	Type	Price
WD-35812-14	Economy double-junction epoxy body	
WD-35802-14	Spring-loaded single-junction epoxy body	
WD-35802-15	Glass body double-junction	

WD-35802-64 Copper Cu⁺² solution kit, for single-junction ISE

WD-35802-65 Copper Cu⁺² solution kit, for double-junction ISE

WD-35803-51 ISA, 5 M NaNO₃, 475 mL

WD-35803-11 Calibration solution, 1000 ppm Cu⁺², 475 mL

WD-35803-81 Replacement electrolyte for single-junction ISE, 1 M KNO₃ with 0.1 M KCl, 60 mL

WD-35803-75 Replacement electrolyte for double-junction ISE, 1 M KNO₃, 60 mL

Cyanide CN⁻

These ISE feature solid state sensors. Measuring range is 0.01 to 5×10^{-6} M and 260 to 0.13 ppm. Interfering ions include S⁻, I⁻, Br⁻ and Cl⁻. Ideal for plating baths, waste water and plant tissue. User must supply calibration standard.

Temperature range: 0 to 80°C (32 to 176°F) **pH range:** 11 to 13 pH

Model. no.	Type	Price
WD-35812-16	Economy double-junction epoxy body	
WD-35802-16	Spring-loaded single-junction epoxy body	
WD-35802-17	Glass body double-junction	

WD-35802-66 Cyanide CN⁻ solution kit, for single-junction ISE

WD-35802-67 Cyanide CN⁻ solution kit, for double-junction ISE

WD-35803-50 ISA, 10 M NaOH, 5 x 100 mL bottles

WD-35803-81 Replacement electrolyte for single-junction ISE, 1 M KNO₃ with 0.1 M KCl, 60 mL

WD-35803-75 Replacement electrolyte for double-junction ISE, 1 M KNO₃, 60 mL

Fluoride F⁻

These ISE feature solid state sensors. Measuring range saturated to 1×10^{-6} M and saturated to 0.02 ppm. Interfering ions include OH⁻. Ideal for drinking/natural water, wastewater, air/stack gases, acids, sea water minerals, soils, food, biological fluids, toothpaste/mouthwash, coal, carbonated beverages, and bone.

Temperature range: 0 to 80°C (32 to 176°F) **pH range:** 5 to 8 pH

Model. no.	Type	Price
WD-35812-18	Economy double-junction epoxy body	
WD-35802-18	Spring-loaded single-junction epoxy body	
WD-35802-19	Glass body double-junction	

WD-35802-68 Fluoride F⁻ solution kit, for single-junction ISE

WD-35802-69 Fluoride F⁻ solution kit, for double-junction ISE

WD-35803-58 ISA, TISAB I, 1 gallon

WD-35803-13 Calibration solution, 1000 ppm F⁻, 475 mL

WD-35803-73 Replacement electrolyte for single-junction ISE, 4 M KCl saturated with AgCl, 60 mL

WD-35803-74 Replacement electrolyte for double-junction ISE, 4 M KCl, 60 mL

Fluoroborate BF₄⁻

These ISE feature polymer membrane sensors. Measuring range is 1 to 7×10^{-6} M and 10,800 to 0.1 ppm as B. Interfering ions include ClO₄⁻, I⁻ and CN⁻. Ideal for plating baths (boron analysis).

Temperature range: 0 to 50°C (32 to 122°F) **pH range:** 2.5 to 11 pH

Model. no.	Type	Price
WD-35812-20	Economy double-junction epoxy body	
WD-35802-20	Spring-loaded single-junction epoxy body	
WD-35802-21	Glass body double-junction	

WD-35802-70 Fluoroborate BF₄⁻ solution kit, for single-junction ISE

WD-35802-71 Fluoroborate BF₄⁻ solution kit, for double-junction ISE

WD-35803-60 ISA, 2 M (NH₄)₂SO₄, 475 mL

WD-35803-15 Calibration solution, 1000 ppm BF₄⁻, 475 mL

WD-35803-80 Replacement electrolyte for single-junction ISE, 0.1 M (NH₄)₂SO₄ with 0.01 M KCl, 60 mL

WD-35803-79 Replacement electrolyte for double-junction ISE, 0.1 M (NH₄)₂SO₄, 60 mL

Iodide I⁻

These ISE feature solid state sensors. Measuring range is 1.0 to 5×10^{-8} M and 127,000 to 6×10^{-3} ppm. Interfering ions include S⁻², CN⁻, NH₃, S₂O₃⁻², Cl⁻ and Br⁻. Ideal for milk, feeds, plants and pharmaceuticals.

Temperature range: 0 to 80°C (32 to 176°F) **pH range:** 0 to 14 pH

Model. no.	Type	Price
WD-35812-22	Economy double-junction epoxy body	
WD-35802-22	Spring-loaded single-junction epoxy body	
WD-35802-23	Glass body double-junction	

WD-35802-72 Iodide I⁻ solution kit, for single-junction ISE

WD-35802-73 Iodide I⁻ solution kit, for double-junction ISE

WD-35803-51 ISA, 5 M NaNO₃, 475 mL

WD-35803-17 Calibration solution, 1000 ppm I⁻, 475 mL

WD-35803-81 Replacement electrolyte for single-junction ISE, 1 M KNO₃ with 0.1 M KCl, 60 mL

WD-35803-75 Replacement electrolyte for double-junction ISE, 1 M KNO₃, 60 mL

NOTE: Electrodes do NOT include calibration standard or Ion Strength Adjusters (ISA)—These must be made by the user or purchased separately.

Lead Pb⁺²

These ISE feature solid state sensors. Measuring range is 0.1 to 1 x 10⁻⁶ M and 20,700 to 0.2 ppm. Interfering ions include Ag⁺², Hg⁺², Cu⁺², high Cd⁺² and high Fe⁺². Ideal for plating baths and organic compounds.

Temperature range: 0 to 80°C (32 to 176°F) **pH range:** 3 to 10 pH

Model. no.	Type	Price
WD-35812-24	Economy double-junction epoxy body	
WD-35802-24	Spring-loaded single-junction epoxy body	
WD-35802-25	Glass body double-junction	

WD-35802-74 Lead Pb⁺² solution kit, for single-junction ISE

WD-35802-75 Lead Pb⁺² solution kit, for double-junction ISE

WD-35803-56 ISA, 5 M NaClO₄, 475 mL

WD-35803-20 Calibration solution, 1000 ppm Pb⁺², 475 mL

WD-35803-81 Replacement electrolyte for single-junction ISE, 1 M KNO₃ with 0.1 M KCl, 60 mL

WD-35803-75 Replacement electrolyte for double-junction ISE, 1 M KNO₃, 60 mL

Nitrate NO₃⁻

These ISE feature polymer membrane sensors. Measuring range is 1.0 to 7 x 10⁻⁶ M and 62,000 to 0.5 ppm. Interfering ions include ClO₄⁻, I⁻, CN⁻ and BF₄⁻. Ideal for surface/drinking water, sewage effluent, soil extracts, fertilizers, soils, plant tissue, meat potatoes, spinach, beets, baby food.

Temperature range: 0 to 50°C (32 to 122°F) **pH range:** 2.5 to 11 pH

Model. no.	Type	Price
WD-35812-30	Economy double-junction epoxy body	
WD-35802-30	Spring-loaded single-junction epoxy body	
WD-35802-31	Glass body double-junction	

WD-35802-78 Nitrate NO₃⁻ solution kit, for single-junction ISE

WD-35802-79 Nitrate NO₃⁻ solution kit, for double-junction ISE

WD-35803-60 ISA, 2 M (NH₄)₂SO₄, 475 mL

WD-35803-24 Calibration solution, 1000 ppm NO₃⁻, 475 mL

WD-35803-80 Replacement electrolyte for single-junction ISE, 0.1 M (NH₄)₂SO₄ with 0.01 M KCl, 60 mL

WD-35803-79 Replacement electrolyte for double-junction ISE, 0.1 M (NH₄)₂SO₄, 60 mL

Nitrogen Oxide NO_x

This ISE features a gas sensing membrane. Measuring range is 5 x 10⁻³ to 5 x 10⁻⁶ M and 220 to 0.2 ppm. Interfering ions include CO₂, SO₂, HF and acetic acid. Ideal for air and stack gases.

Temperature range: 0 to 50°C (32 to 122°F) **pH range:** 1.1 to 1.7 pH

Model. no.	Type	Price
WD-35802-32	Gas Sensing single-junction, epoxy body	

WD-35802-82 Nitrogen oxide NO_x solution kit

WD-35803-57 ISA, 2 M sulfate buffer, 475 mL

WD-35803-26 Calibration solution, 1000 ppm NO₂⁻, 475 mL

WD-35803-72 Replacement electrolyte, 0.1 M NaNO₃, 60 mL

Perchlorate ClO₄⁻

These ISE feature polymer membrane sensors. Measuring range is 1 to 7 x 10⁻⁶ M and 98,000 to 0.7 ppm. No significant interfering ions. Ideal for explosives and solid propellants.

Temperature range: 0 to 50°C (32 to 122°F) **pH range:** 2.5 to 11 pH

Model. no.	Type	Price
WD-35812-34	Economy double-junction epoxy body	
WD-35802-34	Spring-loaded single-junction epoxy body	
WD-35802-35	Glass body double-junction	

WD-35802-84 Perchlorate ClO₄⁻ solution kit, for single-junction ISE

WD-35802-85 Perchlorate ClO₄⁻ solution kit, for double-junction ISE

WD-35803-60 ISA, 2 M (NH₄)₂SO₄, 475 mL

WD-35803-28 Calibration solution, 1000 ppm ClO₄⁻, 475 mL

WD-35803-80 Replacement electrolyte for single-junction ISE, 0.1 M (NH₄)₂SO₄ with 0.01 M KCl, 60 mL

WD-35803-79 Replacement electrolyte for double-junction ISE, 0.1 M (NH₄)₂SO₄, 60 mL

Potassium K⁺

These ISE feature polymer membrane sensors. Measuring range is 1 to 1 x 10⁻⁶ M and 39,000 to 0.04 ppm. Interfering ions include Cs⁺ and NH₄⁺. Ideal for waste water, river/tap water, blood electrolytes, clinical analysis, saliva, serum fertilizers, soils, and wines.

Temperature range: 0 to 50°C (32 to 122°F) **pH range:** 2 to 12 pH

Model. no.	Type	Price
WD-35812-38	Economy double-junction epoxy body	
WD-35802-38	Spring-loaded single-junction epoxy body	
WD-35802-39	Glass body double-junction	

WD-35802-88 Potassium K⁺ solution kit, for single-junction ISE

WD-35802-89 Potassium K⁺ solution kit, for double-junction ISE

WD-35803-53 ISA, 5 M NaCl, 475 mL

WD-35803-30 Calibration solution, 1000 ppm K⁺, 475 mL

WD-35803-77 Replacement electrolyte for single-junction ISE, 0.1 M NaCl saturated with AgCl, 60 mL

WD-35803-78 Replacement electrolyte for double-junction ISE, 0.1 M NaCl, 60 mL

Silver/Sulfide Ag⁺/S⁻²

These ISE feature solid state sensors. Measuring range is for Ag⁺ = 1 to 1 x 10⁻⁷ M and 107,900 to 0.01 ppm; for S⁻² = 1 to 1 x 10⁻⁷ M and 32,100 to 0.003 ppm. Interfering ions include Hg⁺². Ideal for sewage effluent, soils, sediments, plating baths and photographic fixing solution. User must supply solutions for sulfide.

Temperature range: 0 to 80°C (32 to 176°F) **pH range:** 2 to 12 pH

Model. no.	Type	Price
WD-35812-40	Economy double-junction epoxy body	
WD-35802-40	Spring-loaded single-junction epoxy body	
WD-35802-41	Glass body double-junction	

WD-35802-90 Silver solution kit, for single-junction ISE

WD-35802-91 Silver solution kit, for double-junction ISE

WD-35803-51 ISA, 5 M NaNO₃, 475 mL

WD-35803-32 Calibration solution, 1000 ppm Ag⁺, 475 mL

WD-35803-81 Replacement electrolyte for single-junction ISE, 1 M KNO₃ with 0.1 M KCl, 60 mL

WD-35803-75 Replacement electrolyte for double-junction ISE, 1 M KNO₃, 60 mL

NOTE: Electrodes do NOT include calibration standard or Ion Strength Adjusters (ISA)—These must be made by the user or purchased separately.

Sodium Na⁺

These ISE feature glass bulb sensors. Measuring range is 1 to 1×10^{-5} M and 23,000 to 0.2 ppm. Interfering ions include H⁺, K⁺ and Li⁺. Ideal for steam condensates in power plants, blood electrolytes, clinical analysis, serum, foods, wine, glass and sea water.

Temperature range: 0 to 50°C (32 to 122°F) **pH range:** 5 to 10 pH

Model. no.	Type	Price
WD-35812-42	Economy double-junction epoxy body	
WD-35802-42	Spring-loaded single-junction epoxy body	
WD-35802-43	Glass body double-junction	

WD-35802-92 Sodium Na⁺ solution kit, for single-junction ISE

WD-35802-93 Sodium Na⁺ solution kit, for double-junction ISE

WD-35803-54 ISA, 4 M NH₄Cl/NH₄OH, 475 mL

WD-35803-34 Calibration solution, 1000 ppm Na⁺, 475 mL

WD-35803-76 Replacement electrolyte for single-junction ISE, 0.1 M NH₄Cl saturated with AgCl, 60 mL

WD-35803-82 Replacement electrolyte for double-junction ISE, 0.1 M NH₄Cl, 60 mL

Surfactant X⁺, X⁻

These ISE feature polymer membrane sensors. Measuring range is 5×10^{-2} to 1×10^{-5} M and 12,000 to 1.0 ppm. Interfering ions include similar types of surfactants. Ideal for detergents, dishwashing liquids, cleaning supplies, and food products. For titration only.

Temperature range: 0 to 50°C (32 to 122°F) **pH range:** 2 to 12 pH

Model. no.	Type	Price
WD-35812-44	Economy double-junction epoxy body	
WD-35802-44	Spring-loaded single-junction epoxy body	
WD-35802-45	Glass body double-junction	

WD-35802-94 Surfactant X⁺, X⁻ solution kit, for single-junction ISE

WD-35802-95 Surfactant X⁺, X⁻ solution kit, for double-junction ISE

WD-35803-59 ISA, TritonX-100, 475 mL

WD-35803-35 Titrant, 0.05 M hyamine, 475 mL

WD-35803-73 Replacement electrolyte for single-junction ISE, 4 M KCl saturated with AgCl, 60 mL

WD-35803-74 Replacement electrolyte for double-junction ISE, 4 M KCl, 60 mL

Water hardness Ca⁺², Mg⁺²

These ISE feature polymer membrane sensors. Measuring range is 1 to 5×10^{-5} M and 40,000 to 0.4 ppm. Interfering ions include Cu⁺², Zn⁺², Ni⁺² and Fe⁺². Ideal for water softening systems, boiler feed water, drinking/mineral water, blood electrolytes, clinical analysis, and food applications.

Temperature range: 0 to 50°C (32 to 122°F) **pH range:** 5 to 10 pH

Model. no.	Type	Price
WD-35812-48	Economy double-junction epoxy body	
WD-35802-48	Spring-loaded single-junction epoxy body	
WD-35802-49	Glass body double-junction	

WD-35802-98 Water hardness Ca⁺², Mg⁺² solution kit, for single-junction ISE

WD-35802-99 Water hardness Ca⁺², Mg⁺² solution kit, for double-junction ISE

WD-35803-52 ISA, 4 M KCl, 475 mL

WD-35803-05 Calibration solution, 1000 ppm Ca⁺², 475 mL

WD-35803-73 Replacement electrolyte for single-junction ISE, 4 M KCl saturated with AgCl, 60 mL

WD-35803-74 Replacement electrolyte for double-junction ISE, 4 M KCl, 60 mL

Accessories

WD-35613-60 ISE labware kit, contains beakers, volumetric flask, pipette and pipette bulb needed for serial dilution of ISE standards and ISA additions

WD-35617-50 Electrode holder, 6" base. Holds up to four standard size electrodes and one ATC probe. The heavy base allows the holder to pivot 360°. Flexible arm moves electrode sideways or up and down. 9"L x 15"W x 10"H (boxed)