



Van London Co.

"When Accuracy Matters"

ISE ELECTRODE SPECIFICATIONS

Electrode	Catalog No.	Housing	Direct Measurement Range (ppm)	pH Range	Temp. Range (C°)	Interferences	Reference Electrode Style Fill Solution
Ammonia (NH₃)	NH31501	Epoxy	0.01 - 17,000	above 11	0 - 50	Volatile amines	Double Junction NH ₄ Cl
Ammonium (NH₄⁺)	NH41501 NH41502	PVC Glass	0.1 - Sat	4 - 10	0 - 40	K ⁺	Double Junction NaCl
Bromide (Br⁻)	BRO1501 BRO1502	Epoxy Glass	0.4 - Sat	2 - 14	0 - 80	S ⁻² , I ⁻ , CN ⁻ , high levels of Cl ⁻ and NH ₃	Double Junction KNO ₃
Cadmium (Cd⁺²)	CD21501 CD21502	Epoxy Glass	0.01 - 11,200	2 - 12	0 - 80	Ag ⁺ , Hg ⁺² , Cu ⁺² , high levels of Pb ⁺² and Fe ⁺²	Double Junction KNO ₃
Calcium (Ca⁺²)	CAL1501 CAL1502	PVC Glass	0.5 - Sat	3 - 10	0 - 40	Pb ⁺² , Hg ⁺² , Cu ⁺² , Ni ⁺²	Single Junction KCl / AgCl
Carbon Dioxide (CO₂)	CO21501	Epoxy	4.4 - 440	4.8 - 5.2	0 - 50	Volatile weak acids	Double Junction NaHCO ₃
Chloride (Cl⁻)	CLO1501 CLO1502	Epoxy Glass	1.8 - Sat	2 - 12	0 - 80	S ⁻² , I ⁻ , CN ⁻ , Br ⁻	Double Junction KNO ₃
Copper (Cu⁺²)	CUO1501 CUO1502	Epoxy Glass	6.4x10 ⁻⁴ - 6,350	2 - 12	0 - 80	Ag ⁺ , Hg ⁺² , high levels of Cl ⁻ , Br ⁻ , Fe ⁺² , Cd ⁺²	Double Junction KNO ₃
Cyanide (CN⁻)	CNO1501 CNO1502	Epoxy Glass	0.13 - 260	11 - 13	0 - 80	S ⁻² , I ⁻ , Br ⁻ , Cl ⁻	Double Junction KNO ₃
Fluoride (F⁻)	FOO1501 FOO1502	Epoxy Glass	0.02 - Sat	5 - 8	0 - 80	OH ⁻	Single Junction KCl / AgCl
Fluoroborate (BF₄⁻)	BF41501 BF41502	PVC Glass	0.5 (as B) - 10,800	2.5 - 11	0 - 40	ClO ₄ ⁻ , I ⁻ , CN ⁻	Double Junction (NH ₄) ₂ SO ₄
Iodide (I⁻)	IOO1501 IOO1502	Epoxy Glass	6x10 ⁻³ - Sat	0 - 14	0 - 80	S ⁻² , CN ⁻ , Br ⁻ , Cl ⁻ S ₂ O ₃ ⁻² , NH ₃	Double Junction KNO ₃
Lead (Pb⁺²)	PB21501 PB21502	Epoxy Glass	0.2 - 20,700	3 - 8	0 - 80	Ag ⁺ , Hg ⁺² , Cu ⁺² high levels of Fe ⁺² , Cd ⁺²	Double Junction KNO ₃
Nitrate (NO₃⁻)	NO31501 NO31502	PVC Glass	0.5 - Sat	2.5 - 11	0 - 40	ClO ₄ ⁻ , I ⁻ , CN ⁻ , BF ₄ ⁻ , Cl ⁻ , NO ₂ ⁻	Double Junction (NH ₄) ₂ SO ₄
Nitrogen Oxide (NO_x)	NOX1501	Epoxy	0.2 - 220	1.1 - 1.7	0 - 50	SO ₂ , HF, Acetic Acid	Double Junction NaNO ₂
Perchlorate (ClO₄⁻)	PER1501 PER1502	PVC Glass	0.7 - Sat	2.5 - 11	0 - 40	No Significant Interference	Double Junction (NH ₄) ₂ SO ₄
Potassium (K⁺)	KOO1501 KOO1502	PVC Glass	0.04 - Sat	2 - 12	0 - 40	Cs ⁺ , NH ₄ ⁺	Double Junction NaCl
Silver (Ag⁺)	AGS1501	Epoxy	Ag ⁺ = 0.01 - 107,900	2 - 8	0 - 80	Hg ⁺² , Hg ⁺ , Chlorides	Double Junction KNO ₃
Sodium (Na⁺)	NA71501 NA71502	Glass Glass	0.02 - Sat	5 - 12	0 - 80	H ⁺ , K ⁺ , Li ⁺ , Ag ⁺ , Cs ⁺ , Tl ⁺	Double Junction NH ₄ Cl
Sulfide (S⁻²)	AGS1502	Glass	S ⁻² = 0.003 - 32,100	above 11	0 - 80	Hg ⁺² , Hg ⁺ , Chlorides	Double Junction KNO ₃
Surfactant (X⁺ / X⁻)	SUR1501 SUR1502	PVC Glass	N/A	2 - 12	0 - 40	Similar types of Surfactants	Single Junction KCl
Water Hardness (Ca⁺² / Mg⁺²)	WHA1501 WHA1502	PVC Glass	0.5 - Sat	5 - 10	0 - 40	Cu ⁺² , Zn ⁺² , Ni ⁺² , Fe ⁺²	Single Junction KCl