



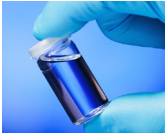



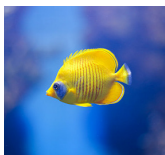


### PH ELECTRODE SELECTION GUIDE

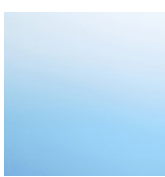

Application	Sample Type	Premium	Alkali Resistance	Cleanable	Open	Low Maintenance	Ultrapure Water	HF Acid Titrant	HF Acid	High Temp. Resistance	Blade Spear	Flat	Long	Slender	3 in 1	Cleanable	Refillable	Unfillable	Blade Spear	Flat	Glass	Ref.Glass	
		962201	962245	962102	962103	962121	962122	962246	962221	962224	962241	962242	962243	962244	E-301-QC	E-201F	E-201-C	E-201	E-201-Z	E-201-P	65-1C	231-01	
	Aqueous Solution	Dilute acidity / Dilute alkaline	•		•										•	•	•	•			•		
		Fertilizer	•			•																	
		Aldehydes ketones, alcohols, ethers, etc								•													
		Fixing solution/electroplating solution	○		○											○		•	○				○
	Food	Yogurt/Cheese/butter			•	•												○				○	
		Jam			•	•												○					○
		Cooking oils			•														○				○
		Soy sauce/vinegar	•			•												○		○			○
		Meat/fish										•	•								•	•	
		Fruit/vegetable										•	•								•	•	
		Paste										•	•								•	•	
	Beverage	Beer/juice/Coffee/Carbonated drink	•		•												○	•				○	
		Pure/ion-exchange water (approx. 1 µS/cm) / Distilled water (approx. 5 µS/cm)					•			•													
	Pharmaceutical/ Biological Sample	Plasma/gastric juice/Urine	•									•		•		○	○				•		
		Pharmaceutical formulation	•										•		•							•	
		Protein-containing sample/ Enzyme solution/Agar medium	•										•		•							•	
		Pure/ion-exchange water (approx. 0.1 mS/m) / Distilled water (approx. 0.5 mS/m)									•												
		Water for injection									•												
		Tris buffer	•										•										
		Microtube/plate (>50 µL) / Micro container/ Tube												•	•								
	Chemical Reagent/ Solvent	Dye/coloring agent/ink			•	•																○	
		Water-based paint/Varnish/Coating/latex			•	•																	○
		Sizing agent			•	•																	○
		Bleaching liquid/rinses/plating solution			•	•												○					
		Boiler water						•		•													
	Cosmetic/Lotion	Leather/paper/textile										•									•		
		Gel/soap/shampoo/Hairdye/lotion			•	•												○		○			○
	Environmental Monitoring	Tap/drinking water (approx. 100 µS/cm)					•		•														
		Surface water/underground water					•		•														
		Municipal wastewater			•	•																	
		Strong acidity (pH <1)	•																				
		Strongly alkaline (pH >10)		•																			
		High viscosity sample			•																		
		High electrolyte sample (Salinity > 5‰) / High salt industrial wastewater				•																	
		Sample EC >100µs/cm					•																
		Sample EC <100µs/cm / ultra-pure water, deionized water									•												
		Highly concentrated acidic wastewater containing fluorine (≤2000ppm HF)								•													
		Acidic sample with a high concentration of fluorine (Hydrofluoric acid)							•														
		Rain					•			•													
		Soil										•							○		•		
		Soil leach	○			•	•				•								○		○		
Mud			•	•													○		○			○	
Sample Containers	Large container												•										
	Reactor												•										
High Temperature	High temperature (80-100°C)								•														

• Recommended  
○ Applicable, service life may be affected.

### EC ELECTRODE SELECTION GUIDE

Application	Electrode Constant (cm <sup>-1</sup> )	Conductivity Range (μS/cm)	Recommend Electrode
 Pharmaceutical water, Pure / ion-exchange water (approx. 1 μS/cm) / Distilled water (approx. 5 μS/cm)	0.01	0.05~2	DJS-0.01VT (with removable flow cell)
 Distilled water (approx. 5 μS/cm) / Boiler water	0.1	1~200	DJS-0.1VTG
 Tap/drinking water (approx. 100 μS/cm)	0.1/1	1~200/2~3000	DJS-0.1VTG DJS-1VC DJS-1VTC DJS-1VG DJS-1VTG
 Irrigation water, dilute acidity, dilute alkaline, waste water, ocean, industrial water, acid and alkali	1	2~200000	DJS-1VC DJS-1VTC DJS-1VG DJS-1VTG
 Ocean, industrial water, acid and alkali	10	2~200000	DJS-10VTC

### DO ELECTRODE SELECTION GUIDE

Sample Type	Application	Recommend Electrode Type	Recommend Electrode
 Samples with no bubbles	River, lakes, ocean	Polarographic DO electrode	DO-957-Q DO-958-Q
 Lots of bubble samples	Beer, carbonated beverage, sparkling wine, aeration tank, food fermentation, power plant, river, lakes, ocean	Optical DO electrode	DO-960-Q

### TITRATION ELECTRODE SELECTION GUIDE

	Recommend Electrode	Application	
Acid-base	Aqueous solutions potentiometric titrations	1) 231-01 pH indicator electrode & 232-01 Reference electrode 2) E-301-QC 3 in 1 pH Composite Electrode 3) 982201 Conventional pH titration electrode 4) 982202 Pollution resistant pH titration electrode	Total acid, basicity, indices such as OH number and saponification number
	Non-aqueous potentiometric titrations	1) 231-01 pH indicator electrode & 217-01 Reference electrode 2) 982211 Non aqueous pH titration electrode	TAN and TBN
	HF titration	962122 pH composite electrode (Hydrofluoric acid)	HF
Precipitation	1) 216-01 Silver electrode & 232-01 Reference electrode 2) 981121 Silver titration electrode & 232-01 Reference electrode	Cr <sup>6+</sup> , Pb <sup>2+</sup> , SO <sub>4</sub> <sup>2-</sup> , S <sup>2-</sup> , CN <sup>-</sup> , Br <sup>-</sup> , I <sup>-</sup> , Cl <sup>-</sup>	
REDOX	213-01 Platinum electrode & 232-01 Reference electrode	Iodometry, manganometry, vitamin C, COD determinations, indices such as Iodine value, peroxide value	
Complexometric	Titration using ion-selective electrodes	Al <sup>3+</sup> , Mg <sup>2+</sup> , Zn <sup>2+</sup> , Ca <sup>2+</sup>	