



Flow Plus Combination ISEs

The EDT directION Flow plus range incorporates two solid state ISE's in one 12 mm Epoxy body. One acts as the Sensor whilst the other is incorporated into the reference system.

Flow plus combination ISE's do not require a separate reference electrode, making it convenient to use with small sample volumes. The sensor and reference are solid state which ensures a longer shelf life than any other type of ISE.

The reference half-cell has a free-flowing liquid junction which will reduce drift and provide more stable readings than conventional ISE's. Flow plus electrodes are ideal for measuring awkward or dirty samples, which would clog conventional reference electrodes. Flow plus ISEs require a filling solution. Approximate capacity of the reference chamber is 3ml.

The Flow plus reference system has a liquid junction provided by a conical plug which is opened or closed by rotation of the electrode cap. The wider the opening between body and plug the faster the electrolyte flows. Low ionic strength samples and samples with high viscosity or particulates are examples of media that require this increased flow.

Flow plus ISEs are ideal in situations where drift, slow response times and reduced electrode lifetimes are a problem. Each EDT directION Flow plus ISE has a 1 metre cable and a BNC connector (other connectors available on request) allowing use on all types of pH/ION meter including laboratory bench and research models.

For direct concentration reading and absolute simplicity the EDT DR359TX pH/ION meter is the perfect instrument for these ISEs. EDT are a UK based manufacturer and produce ISEs for many prominent companies in the water testing sector. As a result our ISEs are very competitively priced and come complete with technical support provided from our vast library of applications and our in house electrochemistry technicians.

For optimum results use EDT direction standards and Ionic Strength Adjustment Buffers (ISABs).

Cat. No	Species	Limits (ppm)	Temp Range	Interferences	pH Range
5051	Ammonium	0.9 – 9,000	0-50°C	K ⁺ Na ⁺	0-8.5
5041	Calcium	0.02 – 4,010	0-50°C	Ba ⁺⁺ Al ⁺⁺⁺ Sr ⁺⁺	3.5-11
5261	Chloride	1-35,500	5-50°C	I ⁻ Br ⁻ CN ⁻ S ⁻	1-12
5221	Fluoride	0.02 - -1,900	5-50°C	OH ⁻	4-8
5921	Nitrate	0.4 – 62,000	0-50°C	Cl ⁻ NO ⁻	2-11
5031	Potassium	0.04 – 39,000	0-50°C	Cs ⁺ NH ₄ ⁺	1-9