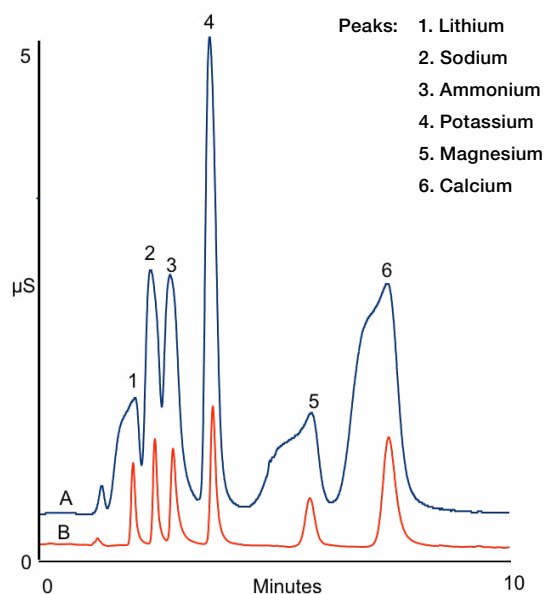# Thermo Scientific
Dionex AS-AP Sample Conductivity and pH Accessory

Automated Sample Measurement and Method Selection

The Thermo Scientific Dionex AS-AP Sample Conductivity and pH Accessory is designed to streamline IC workflows that require sample conductivity and pH measurements before injection. This customer-installable option for the Dionex AS-AP Autosampler offers a whole new level of convenience, time-savings, and increased productivity by allowing automatic calibration and measurement of sample conductivity and pH, subsequent sample handling using conditional statements, and reporting, all within the dimensions of the Dionex AS-AP Autosampler.

• In-line measurements of conductivity and pH before injecting samples onto the column

• Utilization of conditional statements in the Thermo Scientific Dionex Chromeleon Chromatography Data System to allow user to make automated sample injection decisions

• Automatic reporting – Readings are displayed in the sequence report column and post-run reports

• Seamless integration with the Dionex AS-AP Autosampler

Peaks:
1. Lithium
2. Sodium
3. Ammonium
4. Potassium
5. Magnesium
6. Calcium

High-concentration cation standard, separated using a Thermo Scientific Dionex IonPac CS12A, 3 × 150 mm column.

A. Without AS-AP Sample Conductivity and pH Accessory. Standard injection of 25 µL is performed, leading to column overloading and poor chromatography.

B. With AS-AP Sample Conductivity and pH Accessory. Because sample conductivity measures above a set threshold, the Chromeleon™ software automatically adjusts the injection volume to 2.5 µL. Analytes are well resolved with the lower volume injection.

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Conductivity and pH readings can be displayed in report columns on the sequence table for easy review.

DIONEX AS-AP SAMPLE CONDUCTIVITY AND PH ACCESSORY SPECIFICATIONS

Type	Conductivity: Flow-through; pH: Flow-through, silver/silver-chloride electrode
Conductivity Range	0.0 to 30,000 µS
Conductivity Accuracy	At 1000 µS, +/- 0.3%, at point of calibration
Conductivity Minimum Sample Volume	500 µL
pH Range	pH 2 to 12
pH Accuracy	Better than +/- 0.1 pH units at point of calibration (pH 4, 7, and 10), including sensor
pH Minimum Sample Volume	1500 µL (2000 µL recommended)
Control Software	Chromeleon software version 7.1 SR1 or higher Chromeleon software version 6.8 SR10 + DU10c or higher. Supports Microsoft Windows® 7, Vista, and XP

Ordering Information

P/N	Product	Content
074923*	AS-AP Sample Conductivity and pH Accessory	AS-AP Conductivity and pH module, pH probe, and mounting kit
075529*	AS-AP Sample Conductivity and pH Accessory pH Electrode	Ag/AgCl-pH Electrode
074123*	Valve Assembly, includes one 2-Way, 6-Port Valve and Mounting Hardware	6-Port Valve and Mounting Hardware
070209*	2-Way, 6-Port Valve†	6-Port Valve
588801-16**	1000 µS Conductivity Calibration Standard	500 mL bottle of 1000 µS Conductivity Standard
SB101-500**	pH 4 Calibration and Check Standard	500 mL bottle of pH 4 Standard Solution
SB107-500**	pH 7 Calibration and Check Standard	500 mL bottle of pH 7 Standard Solution
SB141-500**	pH 10 Calibration and Check Standard	500 mL bottle of pH 10 Standard Solution

† For Push mode, an AUX valve is required and for pH measurements, a 5 mL syringe and 8.5 mL buffer loop is recommended.

*Thermo Scientific part number.

**Fisher Scientific part number.

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Australia (61) 2 9420 5233	**China** (852) 2428 3282	**Ireland** (353) 1 644 0064	**Sweden** (46) 8 473 3380		
Austria (43) 1 616 51 25	**Denmark** (45) 36 36 90 90	**Italy** (39) 02 51 62 1267	**Switzerland** (41) 62 205 9966		
Benelux (31) 20 683 9768	**France** (33) 1 39 30 01 10	**Japan** (81) 6 6885 1213	**Taiwan** (886) 2 8751 6655		
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