

**Model :**

**XM-LPIC-A10**



## **Portable Ion Chromatograph**

## FEATURES:

- Leak protection via water/electricity separation
- Bluetooth mouse and keyboard included
- Uninterruptible power for easy battery changes
- Auto-range detector for ppb-ppm concentration
- Electrolytic micro-membrane suppressor

## Overview

Portable Ion Chromatograph XM-LPIC-A10 is designed with a dual-piston serial pump capable of withstanding up to 35 MPa pressure. It delivers an impressive flow rate range of 0.001 to 9.999 mL/min with  $\leq 0.67\%$  stability. Features a chemically inert, metal-free PEEK flow path that is compatible with a wide range of aqueous eluents and reversed-phase solvents. The compact, lightweight, and portable design makes it ideal for outdoor and onsite field applications.

## SPECIFICATIONS:

Model	XMLPIC-A10
Pump Type	Dual-piston serial pump
Pump Maximum Pressure	35 MPa
Pump Flow Rate Range	0.001 to 9.999 mL/min
Pump Flow Stability	$\leq 0.67\%$
Tube Diameter	1/16"
Valve Rotor Material	PEEK
Valve Medium Material	PEEK
Column Heater Temperature Range	Ambient + 5 to 60 °C

Heater Temperature Accuracy	$\pm 0.2^{\circ}\text{C}$
Temperature Stability	$\leq 0.2^{\circ}\text{C/h}$
Columns Supported	2, 3, 4, and 5 mm
Analytical Column Length	250 mm
Guard Column Length	50 mm
Conductivity Detector Type	Auto-range conductivity detector
Cell Volume	$\leq 0.8 \mu\text{L}$
Detection Range	0 to 45000 $\mu\text{S/cm}$
Resolution	$\leq 0.0020 \mu\text{S/cm}$
Output Voltage	-6000 to +6000 mV (adjustable)
Baseline Noise	$\leq 0.0028 \mu\text{S/cm}$
Baseline Drift	$\leq 0.0293 \mu\text{S}$
Operating Temperature Range	Ambient + $5^{\circ}\text{C}$ to $60^{\circ}\text{C}$
Detector Temperature Accuracy	$\pm 0.01^{\circ}\text{C}$
Temperature Compensation	1.7% / $^{\circ}\text{C}$
Operating Temperature Range	Ambient + $5^{\circ}\text{C}$ to $60^{\circ}\text{C}$
Detector Temperature Accuracy	$\pm 0.01^{\circ}\text{C}$
Temperature Compensation	1.7% / $^{\circ}\text{C}$

Maximum Pressure	10.0 MPa
Instrument Linearity	$\geq 0.999$
Quantitative Repeatability	$\leq 0.71\%$
Qualitative Repeatability	$\leq 0.07\%$
Minimum Detectable Concentration	Cl <sup>-</sup> : $\leq 0.0012 \mu\text{g/mL}$ Li <sup>+</sup> : $\leq 0.0012 \mu\text{g/mL}$
Suppressor Type	Self-Regeneration electrolytic micromembrane suppressor
Suppressor Maximum Pressure	6.0 MPa
Non-Suppressed Chromatography	Yes/support
Void Volume	<40 $\mu\text{L}$ (4 mm), <15 $\mu\text{L}$ (2 mm)
Power Supply	220V AC
Battery Type	Built-in lithium battery
Dimension (L × W × H)	420 × 320 × 190 mm
Net Weight	$\leq 9 \text{ kg}$
Gross Weight	13 Kg

### Applications :

The Portable Ion Chromatography XMLPIC-A10 is ideal for field and lab applications requiring accurate ion analysis, such as environmental monitoring, water quality testing, food safety, and pharmaceutical analysis.

### Standard Accessories :

- Conductivity Detector
- Manual 6-Way Valve
- Anion Column
- Guard Column (Anion)
- Anion Suppressor
- Chromatography Software
- Column Heater
- Spare Parts Kits
- Vacuum Degassing Pump
- Sand Core Filtration Device
- 0.22um Syringe Filter × 100 Pieces
- Power Supply
- Ipad

### Optional Accessories :

- Cation column
- Guard column (cation)
- Cation suppressor

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