Integrated Ion Chromatograph - Reagent-Free IC System - 10-inch Touch Screen - 100 Hz Detector

Model **MSIC-W6200SWISS** | Brand **Master Science**







The Master Science Integrated Ion Chromatograph packs the pump, eluent generator, column oven, suppressor and conductivity detector into one cabinet. A 10-inch touch screen shows the flow path and the status of each component in real time.

KEY HIGHLIGHTS

- Less manual preparation
- Lower running cost
- Wide dynamic range
- Longer pump life
- Fewer surprises

AT A GLANCE

All-plastic: PEEK, PTFE, PP
FLOW PATH

DSP-based conductivity, auto-ranging
DETECTOR

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

Scan to view online

Overview

The instrument can be controlled and updated remotely over Ethernet. One-button rinsing and maintenance routines run without supervision, and consumables such as suppressors carry ID codes so their remaining life is tracked.

Key Benefits

Less manual preparation
the Master Science Integrated Ion Chromatograph makes eluent from water on demand.

Lower running cost
no acid or alkali regenerant for the suppressor.

Wide dynamic range
auto-ranging detector measures high and low components together.

Longer pump life
peristaltic post-pump seal wash.

Fewer surprises
consumable life monitoring with reminders.

A modular alternative is the Master Science ion chromatograph system.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSIC-W6200SWISS
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Pump	PEEK pump head with electronic pulsation suppression
Injection Valve	PEEK, motorised
Flow Path	All-plastic: PEEK, PTFE, PP
Suppressor	Electrolytic self-regenerating membrane; anion and cation types
Eluent Generator	Water-only; hydroxide, carbonate and methanesulfonate types
Column Oven	Built-in, with eluent and sample preheating
Remote Control	Ethernet
Protection	Leakage alarm with automatic shutdown; high and low pressure protection
Display	10-inch high-definition touch screen
Detector	DSP-based conductivity, auto-ranging
Detection Frequency	Up to 100 Hz, adjustable

COMMON PROBLEMS AND HOW THIS INSTRUMENT HELPS	
Common Problems and How This Instrument Helps	How the Master Science Integrated Ion Chromatograph reduces routine IC trouble:
Leaks noticed too late	leak detection with alarm and shutdown.
Salt deposits wearing pump seals	automatic plunger wash.
Suppressor failing mid-sequence	ID-coded life monitoring.
Peak broadening from temperature differences	preheated eluent and sample.

Applications

The Master Science Integrated Ion Chromatograph is used for

Anion and cation analysis Simultaneous measurement of high- and low-concentration ions Routine ion analysis in testing laboratories

Intelligent Operation

- One-button rinsing after analysis
- One-button automatic maintenance
- Online emptying of the high-pressure flow path
- Remote control and software updates through Ethernet

Pump and Flow Path

- Full PEEK pump head resistant to acid, alkali and reversed-phase solvents
- Floating mechanical design
- Colour-coded plastic tubing
- Simple, intuitive piping layout

Temperature Control

- Built-in column oven with efficient heat exchange
- Eluent and sample preheated before the column
- Temperature-controlled and compensated conductivity cell

Suppression and Eluent

- Reagent-free electrolytic suppression
- Fast equilibration, no membrane drying
- Gradient elution achievable with an isocratic pump

Optional Accessories

- Autosampler with sample cover, single or dual channel injection and 2 mL large-volume support
- Autosampler with up to 120 positions, auto dilution and temperature control
- Chromatography workstation software