

AXP-MS Auxiliary Pump for Mass Spectrometry



The AXP-MS single-piston pump uses a digital stepper drive and rapid refill to deliver precise and accurate flow. Internal transducer provides pressure display and monitoring capability.

Now sold under the
Thermo Scientific brand

Thermo
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Key Features

The AXP-MS digital pump is an auxiliary pump for MS support or general metering applications. The AXP-MS has multiple uses:

- Supply of cone wash solvents to keep the entrance orifice of the MSQ™ Plus free of salt and matrix buildup, thereby increasing the time between required maintenance cleaning of the MSQ Plus
- As a postcolumn addition pump for introducing organic additives or acid/base modifiers to the eluent stream, or reagents for the derivatization of analytes after chromatographic separation

The AXP-MS is also used as a flow source when other pumping is not available or would be inconvenient:

- For flow injection analysis of standards or samples for the optimization of the MS inlet parameters
- During calibration of the MSQ Plus to convey the mass calibration standard from the internal reservoir in the MSQ Plus to the inlet probes
- As a sample injector for loop injections (without column separation) for meeting installation specifications



Passion. Power. Productivity.

Wide Flow Range

The AXP-MS operates from 0.01 to 1.00 mL/min at pressure ratings up to 2500 psi.

Internal Pulse Damper

Diaphragm-type pulse damper reduces pulsation while maintaining an inert flow path.

Fully IC and Biocompatible

PEEK, ceramic, and other inert fluid path materials ensure a wide range of solvent and analyte compatibility, and long life in the laboratory environment.

Positive Seal-Washing Standard

The self-flush head extends seal life dramatically by removing salts and wetting the seal.

Easy Maintenance

The complete head assembly can be changed in seconds at a price similar to seals and check valves in many pumps.

Flexible, Advanced Chromeleon® Control

The AXP can be truly controlled (control/status) through Chromeleon revision 6.8 or greater. Limited control is possible using earlier versions of Chromeleon or relay control.

Integrated Injection Valve

The AXP-MS is equipped with an injection valve with a purge/priming port. This feature allows precise and reproducible injections of samples or analytes when the pump is used with flow or loop injection modes of analysis.

SPECIFICATIONS

Rated Pressure:

2500 psi

Flow Rates:

0.01–1.00 mL/min

Flow Accuracy:

3% throughout flow range

Pressure Pulsation:

2% peak-to-peak at 100 psi, 1 mL/min with in-line pulse damper

Flow Rate Precision:

0.5% at calibration pressure

Control:

- Interfaces with Chromeleon, RS-232, and relay control
- Full control with Chromeleon revision 6.8 or greater using serial/USB connection
- Limited control (no status feedback) with generic serial driver
- Front panel and relay control

Dimensions (h x w x d):

6.5 × 6.5 × 10 in

Weight:

15 lbs

Power:

120/230 V ac; 50/60 Hz

Materials:

PEEK, ceramic, and inert polymers

ORDERING INFORMATION

To order, using the following part numbers, contact your local Dionex office or distributor nearest you. In the U.S., call (800) 346-6390. In other regions, refer to the phone numbers below.

| Description | Part Number |
|------------------------------------|-------------|
| AXP-MS, Auxiliary Pump for MS..... | 060684 |

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