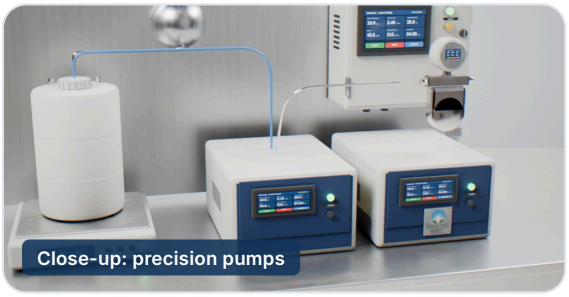
PRODUCT DATASHEET

Lab and Pilot Precision Dosing Module

HPLC-pump and Coriolis micro-dosing for pilot rigs

Product page





Close-up: precision pumps

OVERVIEW

The Tech Inc. Lab and Pilot Precision Dosing Module feeds liquids into pilot plants, catalyst test rigs and flow reactors at small, exact and steady rates. HPLC-type pumps or Coriolis-controlled pumps deliver from microlitres to litres per hour, and a balance or flow meter records what was fed.

TYPICAL DESIGN DATA

Wetted materials	316L; Hastelloy C and PEEK on request
Pressure	To about 400 bar by model
Accuracy	Flow held to about 1% of set point with Coriolis control
Codes and standards	Pressure parts to ASME B31.3; electrics to the room classification
Feed vessel	On a balance, nitrogen-blanketed
Interface	4–20 mA, Modbus or Profinet to the rig PLC
Options	Heating, multi-channel, explosion-proof cabinet

MODELS AND CAPACITIES

- **TI-PDM-10** – about 0.01 to 10 mL/min, to about 400 bar
- **TI-PDM-2K** – about 2 to 2,000 g/h with Coriolis control
- **TI-PDM-100** – about 0.1 to 100 mL/min, to about 200 bar
- **TI-PDM-20K** – about 0.2 to 20 kg/h with Coriolis control

Indicative flow ranges.

ORDERING CODE

Example **TI-PDM-2K-C-2**: **2K** flow range: 10, 100, 2K (g/h), 20K (g/h); **C** pump control: H HPLC-type, C Coriolis-controlled; **2** number of channels.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** heated feed; multi-channel module; explosion-proof cabinet; second pump for gradient feeds; rig PLC integration.

KEY ADVANTAGES

- **Steady** – pulsation-free delivery
- **Measured** – balance or Coriolis record of every gram
- **High pressure** – to about 400 bar
- **Rig-ready** – standard PLC interfaces

How to cite: Lab and Pilot Precision Dosing Module (model TI-PDM; Tech Inc., Vaughan, Ontario, Canada). www.techincresearch.com/product-page/precision-micro-dosing-module

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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