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AT-1200WL Weight Loss Powder Feeder **Technical Datasheet**

OVERVIEW

The AT-1200WL Weight Loss Powder Feeder from Thermach is a precision feeding system engineered for thermal spray applications that demand accurate and repeatable powder delivery. Using real-time scale feedback and closed-loop control, the AT-1200WL ensures consistent feed rates across a wide range of materials, making it ideal for both R&D and controlled production environments.



KEY FEATURES

- Precision powder-flow measurement via weight-loss feedback loop
- Stable feed rate across various powders and particle sizes
- Integrated touchscreen for local control and diagnostics
- Remote control integration (analog or digital)
- Compact benchtop design with sealed hopper to minimize contamination
- USB/Ethernet data logging option for traceability

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
Feed Rate Range	5 – 250 g/min (material dependent)
Hopper Capacity	205 cubic inches (extended canisters available)
Scale Resolution	0.005 kg
Control Interface	0–10 V analog or 4–20 mA; RS-232/485
Display	5" Touchscreen (backlit LCD)
Enclosure Rating	IP52
Data Output (Optional)	USB, Ethernet
Dimensions (L × W × H)	610 × 434 × 1,346mm (24" × 17.1" × 53")
Weight	40kg (88 lbs)

POWER REQUIREMENTS

PARAMETER	SPECIFICATIONS
Input Voltage	100–240 V AC, 50/60 Hz
Power Consumption	< 150 W
Connection Type	IEC C14 with fuse protection



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ENVIRONMENTAL & FACILITY REQUIREMENTS

PARAMETER

Operating Temperature
Humidity
Ventilation Requirements

SPECIFICATIONS

10°C to 45°C (50°F to 113°F)
Up to 85% non-condensing
Ambient, avoid direct airflow

INPUTS/OUTPUTS & CONTROL

Inputs: Start/Stop (dry contact or 24V DC) | Feed Rate Setpoint: 0–10 V, 4–20 mA, or RS-232/485

Outputs: Feed Rate Feedback: 0–10 V, 4–20 mA, or digital output | Fault/Error status

Control Interface: RS-232, RS-485, or Modbus RTU

MAINTENANCE & SERVICE

Recommended calibration every 6 months or 1,000 hours

Quick access to internal components for cleaning

Replaceable wear items: hopper seals, scale gasket

Firmware updates via USB or Ethernet

ORDERING INFORMATION

PART NUMBER

AT-1200WL
AT-1200WL-SK
AT-1200WL-DLOG

DESCRIPTION

Standard Weight-Loss Powder Feeder
Service Kit (gasket, seals, calibration weight)
Data Logging Package (USB/Ethernet Module)

Manufacturer of Equipment & Parts for the Thermal Spray Industry.

Easy online quote requests at **www.thermach.com**.

Call **(920) 779-4299**. Email **sales@thermach.com**.



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