

HPD Multitherm 200

The new **High Precision Dosing pump - model 2251** for normal and / or high temperature metering of fluids.

The **HPD Multitherm 200** covers a wide area of applications with its possibilities of variable flow ranges from micro to large flow (depending on the pump head), normal and / or high temperature and wide pressure range. As a high precision dosing pump it is a unique dosing unit for the use in micro-process technology and mini-plants where high pressure and and / or high temperature is needed.

Technical data:

Operation Temperature:	- 5 °C to + 200 °C
Pressure shut-off:	for P min and P max
Temperature shut-off:	if set temperature is exceeded
Compressibility:	adjustable
Flow rate accuracy:	better 3 %
Flow reproducibility:	better 0.5 %
Residual Pressure Pulsation:	better 3 %
Pump head identification:	automatically
Purge Key:	standard
External control:	by contact closures or active input
	by RS 232 or current loop all functions
Power requirements:	110/220 V +/- 10 % 50/60 Hz 50 VA
Dimensions:	381 x 255 x 130 mm (LxWxH)
Weight (without pumphead)	8.7 kg
P/N 2251 0000	



Fig 1: Pump and Control Unit



Fig 2: HPD Pump with Thermo Jacket (for all pump heads)



Fig 3: Temperature Control Unit: TCU 200

Pump Heads:

- **HT0** Flow : 0,001 - 0,999 ml/min
pressure range: 0 - 60 MPa
P/N 2251 0100
- **HT1** Flow : 0,010 - 4,99 ml/min
pressure range: 0 - 50 MPa
P/N 2251 0200
- **HT2** Flow : 0,100 - 19,99 ml/min
pressure range: 0 - 15 MPa
P/N 2251 0300
- **HT3** Flow : 0,100 - 39,99 ml/min
pressure range: 0 - 5 MPa
P/N 2251 040

