

MASTERFLEX® B/T® Modular Digital Pump

High-volume, high-accuracy dispensing

- Accepts new B/T PerfectPosition™ pump tubing sizes B/T 87 and B/T 91
- Dispense by volume or time, or pump continuously
- Separate motor and controller by up to 25 feet for convenient operation
- IP56-rated controller and motor protect against dust and water

This durable, variable-speed digital pump is ideal for bulk fluid transfer and dispensing applications. With flow rates up to 37 LPM (9.8 GPM), it can handle large batches quickly and efficiently. Keypad lock/unlock feature helps lock in your settings and prevents accidental or unauthorized changes.

A full-featured dispenser, the B/T modular digital pump offers a powerful, reversible ½-hp motor with simple intuitive controls. Start, stop, prime, reverse, calibrate, and dispense using the sealed keypad. Four-digit LED display shows flow rate (0.1, 1, or 10 LPM resolution autoranging with tubing size), dispense volume (0.1 to 999 L in 0.1 L increments), motor rpm, and copy number (1 to 99 repetitions, 100 mL to over 1000 liters each) for automated repetitive dispensing.

To easily integrate with your process, the pump features extensive remote control capabilities. Remote features include 0 to 20 mA, 4 to 20 mA, and 0 to 10 V speed control input; 0 to 20 mA, 4 to 20 mA, 0 to 10 V, and TTL pulse tachometer output; and pump direction, start/stop, and prime via open collector, contact closure, or handheld remote controller 07592-83.

Pump stores one user-defined calibration value for maximum accuracy and repeatability. Calibrate manually to compensate or use the nominal calibrations stored in the nonvolatile memory.

What's included: a new Rapid-Load® pump head, 1.8 m (6-ft) power cord (115 VAC: US standard plug; 230 VAC: European plug), and 1 m (3 ft) of Tygon® LFL B/T 91 tubing 06430-91.

Dispensing Precision

Tubing size	Minimum dose (for ±0.5% precision)	Precision (±)
B/T 87	5 L	15 mL
B/T 91	10 L	33 mL

Flow Rates, LPM (GPM)

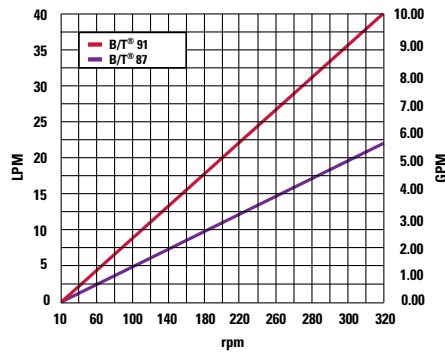
rpm	PerfectPosition™ pump tubing	
	B/T 87	B/T 91
12 to 321	0.67 to 17.7 (0.17 to 4.7)	1.4 to 37 (0.4 to 9.8)

Ideal for Large Batch Transfers!



B/T® modular digital pump 940-2610 with IP56-rated controller includes a new and improved Rapid-Load® pump head.

**Flow Curves
B/T® Rapid-Load® Pump Head**



Specifications & Ordering Information



Catalog number	940- 2610	940- 2615
Performance Specifications		
Flow capacity	37 LPM (9.8 GPM)	37 LPM (9.8 GPM)*
rpm	10 to 321	10 to 321 @ 60Hz, 10 to 266 @ 50Hz
Number of channels	One	One
Reversible	Yes	Yes
External control – input	0 to 20 mA; 4 to 20 mA; or 0 to 10 V; START/STOP; CW/CCW; PRIME (contact closure)	
External control – output	0 to 20 mA; 4 to 20 mA; or 0 to 10 V; TACH; Motor running (NC or NO)	
Electrical Specifications		
Voltage VAC (50/60 Hz)	115 VAC, 60/50 Hz, 1 phase	230 VAC, 60/50 Hz, 1 phase
Current	5 amps	2.5 amps
Motor type	NEMA 56C face, TENV, PMDC	NEMA 56C Face, TENV, PMDC
Motor size	½ hp (0.37 kW)	½ hp (0.37 kW)
Display	Four-digit, seven-segment LED	Four-digit, seven-segment LED
Control	Microprocessor, membrane keypad	Microprocessor, membrane keypad
Motor speed	1800 rpm	1800 rpm
Speed regulation of set point (repeatability)	±0.3%	±0.3%
Soft-start/electronic brake	Yes	Yes
Physical Specifications		
Housing materials	Polyester powder coated aluminum, nickel-plated steel, 300 stainless steel, and polycarbonate	
Pump head materials	Nylatron™ rollers, Delrin™, polyester powder-coated cast iron	
IP rating	IP56	IP56
Agency listings	UL, cUL	UL, cUL; CE (230 volt only)
Operating temperature	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)
Storage temperature	-45 to 65°C (-13 to 149°F)	-45 to 65°C (-13 to 149°F)
Dimensions (L x W x H)	Drive and Pump: 51 x 40 x 66 cm (20" x 15½" x 26") Controller: 25 x 28 x 12 cm (10" x 11" x 4½")	Drive and Pump: 51 x 40 x 66 cm (20" x 15½" x 26") Controller: 25 x 28 x 12 cm (10" x 11" x 4½")
Shipping weight	47 kg (98 lb)	47 kg (98 lb)

*Flow at 60 Hz, at 50 Hz flow will be % of flow rate shown.



28W092 Commercial Ave.
Barrington, Illinois U.S.A. 60010-2392
1-800-637-3739 (U.S. and Canada only)
11-847-381-7050 (Outside U.S.)
847-381-7050 (Local)
FAX 11 847-381-7053 (Fax outside U.S.)
847-381-7053 (Local Fax)
www.barnant.com
e-mail:barnant@barnant.com