

Variable Speed Systems features a detachable controller with connecting 3m (10 ft) cord.

Modular Digital Systems are ideal for large fluid transfer and dispensing applications.

Thermo Scientific Masterflex® B/T Analog or Digital Variable-Speed Systems



B/T Analog Pump System
945-1610



B/T Digital Modular Pump System
945-2610

B/T Analog Pump System

- Simple one-hand opening/closing.
- Reinforced base and motor mount with return bend for easy installation.
- Achieve the highest flow rates of any Masterflex pump— up to 37 LPM (9.8 GPM).
- Simple controls make this easy-to-operate.
- Washdown pumps handle the toughest process and production applications, then clean up with ease.
- Detachable controller with 3 m (10 ft) cord mounts on pump or wall.
- IP56-rated motor protects against dust and strong jets of water.
- Reversible motor: purge before or after pumping, pump fluid in either direction.
- Includes 6 ft line cord – 115 V AC: US Standard plug: 230 V AC European plug.

B/T Digital Modular Pump System

- Simple one-hand opening/closing.
- High-volume, high-accuracy dispensing.
- 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.
- Keypad lock/unlock feature helps lock in your settings and prevents accidental or unauthorized changes.
- Simple intuitive controls. Start, stop, prime, reverse, calibrate, and dispense using the sealed keypad.
- Display shows flow rate in metric or units (LPM).



Specifications & Ordering Information

Catalog Number	B/T Analog Modular Pump System		B/T Digital Modular Pump System	
	945-1610	945-1615	945-2610	945-2615
PERFORMANCE				
Flow Capacity	37 (LPM) 9.7 (GPM) Typical			
rpm	12 to 321		11 to 321	
Number of Channels	One			
Reversible	Yes			
External Control - Input	Not Applicable		0-20 mA; 4-20 mA; or 0-10V DC; Start/Stop; CW/CCW; PRIME (contact closure)	
External Control - Output	Not Applicable		0-20 mA; 4-20 mA; or 0-10 V DC; Tach Motor Running (N.C. or N.O. contact closure)	
Tach Output	Not Applicable		TTL Hz 128-7680Hz	
ELECTRICAL				
Voltage V AC (50/60Hz)	115V, 60Hz 1Ph	230V, 50/60Hz 1Ph	115V, 60Hz 1Ph	230V, 50/60Hz 1Ph
Current (mA)	6.5A	3.3A	6.5A	3.3A
Motor Type	NEMA 56C Face, TENV, PMDC			
Motor Size	1/2 HP (0.37 kW)			
Motor Speed	Max. 1800 rpm			
Speed Regulation of Setpoint (repeatability)	± 5% (± 5 rpm)		± 0.25% F.S.	
Self-Start/Electronic Brake	Not Applicable		Yes	
Display	Not Applicable		Four Digit, Seven Segment LED	
PHYSICAL SPECIFICATIONS				
Housing materials	Polyester powder coated aluminum, Powder coated steel and 300 Stainless steel			
Pump Head Materials	NYLATRON® rollers, DELRIN®, Polyester powder coated cast iron			
Operating temperature	0 to 40°C (32 to 104°F)			
Storage temperature	-20 to 60°C (-4 to 140°F)		-45 to 65°C (-49 to 149°F)	
IP rating	IP 56 (NEMA 4)			
Agency approvals	UL, cUL, CE (230V only)			
Dimensions (L x W x H)	70.1 x 40.4 x 42.4 cm (27.6 x 15.9 x 16.7 in)			
Pump Dimensions (L x W x H)			71.7 x 40.4 x 38.3 cm (28.25 x 15.9 x 15.1 in)	
Controller Dimensions (L x W x H)			28 x 11.4 x 23 cm (11 x 4.5 x 9 in)	
Shipping weight	43 kg (95 lb)		47 kg (98 lb)	

