



# Harvard Apparatus P-1500 Peristaltic Pump with Weight Scale Integration



#### **KEY FEATURES**

- Intuitive touch screen with integrated weight scale control
- Automatically dispenses to predefined sample weight
- User selectable auto-tare, slow-down and anti-drip features
- Key pump and scale parameters clearly displayed
- Remote pump head can be placed up to 5 ft (1.5 M) from controller
- Weight scale command set for system integration

#### **APPLICATIONS**

- · Reproductive biotechnology sampling
- Organic solvent dispensing
- Automated weighing of food samples

The Harvard Apparatus P-1500 Peristaltic Pump with Weight Scale integration allows the user to dispense fluids based on units of weight. The peristaltic controller provides scale communication allowing the pump to query the scale during operation for precise dispensing. This new option is compatible with Mettler Toledo XS series, the Ohaus Defender 5000 series, and the Ohaus Ranger series scales (scales sold separately).



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# Harvard Apparatus P-1500 Peristaltic Pump

### **Advanced Features**

#### **Anti Drip**

When enabled, the anti-drip feature automatically runs the pump in the reverse direction for approximately 500 milliseconds after the pump finishes dispensing. This prevents any unwanted solution that remains in the tubing from dripping out and skewing the dispensed weight. This feature will greatly improve the accuracy of highly precise dispenses.

#### **Auto-Tare**

The auto tare feature allows the Harvard P-1500 peristaltic pump to automatically zero the connected scale each time the pump completes a dispense. This feature provides the user with increased efficiency by eliminating the need to stop and manually clear the scale between dispenses.

#### Slow-Down

The slow down functionality allows the user to more accurately dispense a solution by effectively eliminating the risk of over dispensing due to high flow rates. The user can select an additional slower taxi flow rate setting that will activate when the dispense solution reaches a predefined weight.

Ordering Information			
Order #	Product		
70-7008	P-1500 with Weight Scale Integration		
Replacement Parts			
70-7005	P-1500 Motor Drive, 4 rollers, 1 channel		
70-7009	Control box with Weight Scale Integration		
2601046	Scale to Controller Cable (DB9 to RJ-11)		

## Connectivity

The Weight Scale Controller contains RS-232 ports for scale and PC communication. USB can also be used to control both the pump and the scale. A complete set of commands are available for system integration. A scale communication cable (RJ-11 to RS-232) is also provided.

#### **Tubing**

Harvard Apparatus also offers tubing for the P-1500 Peristaltic Pump. The pumps is compatible with tubing inner diameter sizes of 0.8 to 8mm (0.03 to 0.314 in). Note: Higher accuracy can be achieved when using smaller inner diameter tubing.

Specifications				
Pump Model	P-1500 with Weight Scale Integration			
Number of Channels	1			
Number of Rollers	4			
Tube Size (Inner Diameter)	0.8 to 8 mm (0.03 to 0.314 in)			
Flow Rate (ml/min/channel)	Tubing Size Dependent			
Min/Max	0.001 ; 1,500			
Computer Control	Yes (USB/RS-232) with Command Set			
TTL Control	Yes			
Analog Control	Yes			
Power	100-250 VAC, 50/60 Hz			
Weight	2.5 kg (5.5 lbs)			

<sup>\*</sup> Note: P70 and P230 Motor Drives are also compatible with weight scale control. The feature will only work with one or combined channels. Please consult the factory for additional information.

			Tygon® ST R-3603	Tygon® LFL	Tygon® SI Silicone 3350	PharMed Ismaprene
Tubing ID	Max Flow (ml/min)	Wall Thickness	Order #	Order#	Order #	Order#
0.8 mm (1/32 in)	15	1.6 mm (1/16 in)	73-1806	_	-	72-0958
1.6 mm (1/16 in)	60	1.6 mm (1/16 in)	72-1016	72-9383	73-3255	72-0906
3.2 mm (1/8 in)	242	1.6 mm (1/16 in)	72-1020	72-9384	73-3256	72-0960
4 mm (5/32 in)	378	1.6 mm (1/16 in)	72-1022	_	-	_
4.8 mm (3/16)	545	1.6 mm (1/16 in)	72-1024	72-9385	73-3257	72-0964
6.4 mm (1/4 in)	969	1.6 mm (1/16 in)	72-1026	72-9386	73-3259	72-0965
8 mm (5/16)	1515	1.6 mm (1/16 in)	72-1027	72-9388	73-3261	72-0967
Length Supplied			15 m (49 ft)	7.5 m (24.6 ft)	15 m (49 ft)	7.5 m (24.6 ft)

