# **Bench Top Controller**

## Pressure Controller

#### The **Microfluidic Pressure Controller - Bench Top** (MPC-BT) combines the closed loop

performance features of OEM-grade electronic pressure controllers into a form factor suitable for laboratory and prototype development work. Used in microfluidic and life science research, this unit replaces manual regulators, sensors, gauges, and tubing assemblies while providing considerably better pressure accuracy and eliminating pressure drift and fluctuation.

Typical applications include:

- Liquid Piloting
- Cytometry Research
- Microfluidics
- Oocyte Chambers

### Features

- Simple adjustment of closed-loop pressure set points via front panel knob
- Electrical inputs for high resolution set points
- Set and display pressure in your choice of units
- Optional I/O hook-ups allow high resolution and/or remote operation
- Quick disconnect fittings for easy pneumatic connection



## Characteristics

Performance Characteristics			
Pneumatic	Includes 2 pcs of Parker Presto-Loc quick disconnect fittings for ¼" urethane tubing		
Recommended Pressure Source	120% rated pressure		
Accessories (not included)	Burst proof air-over-liquid piloting chamber		

### **LED Display**

3 digit visual (0.375" height) with choice of pressure units (see Model chart)

Refresh rate

0.1 sec

<b>Physical Prop</b>	perties			
Media		Air and non-corrosive gasses		
<b>Operating Environment</b>		0 to 55°C (32 to 131°F)		
Storage Temperature		-40 to 55°C (-40 to 131°F)		
Dimensions (W x L x H)		5.08 x 5.25 x 2.25 in (129 x 133 x 57 mm)		
Weight		2 lbs (907 grams)		
Electrical				
Input Power		100 - 240 VAC* (50-60 Hz) *power supply and 6ft. cord included		
1/0	pressur	0–5 VDC analog input for high resolution (0.001 psi) pressure set points 0–5 VDC monitor output signal allows high resolution (0.001 psi)		

# 3Dispense

Liquid Handling for Life



Model	MPC-BT-015	MPC-BT-050	MPC-BT-100
Pressure Range (psig)	0-14.7	0-50	0-100
Actual Resolution from monitor signal (psi)	0.001	0.001	0.001
Display Resolution (psi)	0.1	0.1	1
Display Resolution (bar)	0.001	0.01	0.01
Display Resolution (kPa)	0.1	1	1
Display Resolution (Kgf/cm3)	0.001	0.01	0.01
Repeatability of Pressure Control	0.2% FS	0.2% FS	0.2% FS



81 Gould Hill Rd. Greenfield New Hampshire, 03047 603-397-3005 sales@3dispense.com

Learn More at www.3dispense.com