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QUALITY PERISTALTIC PUMPS, HEADS AND TUBING FOR YOUR LIQUID DISPENSING NEEDS



INTELLIGENT FLOW PERISTALTIC PUMPS

IP0620 BT101F Intelligent Dispensing Peristaltic Pump

This intelligent dispensing peristaltic pump provides a flow range from 0.006 to 570 mL/min. It's easy to operate with an intuitive clear interface together with a colour LCD touch screen. There are four operating modes available: Volume Dispense Mode, Time Dispense Mode, Copy Dispense Mode and Flow Mode. The system minimises working noise due to intelligent cooling fan control. With RS485 MODBUS communication interface, the pump is easy to connect with an external device, such as PC, HMI or PLC.

BT101F KEY FEATURES:

- Bright and clear colour LCD display, touch screen and keypad for ease of operation.
- Reversible direction, start/stop control and adjustable speed.
- Precise motor control technology improves dispense accuracy compared to the traditional time dispense mode.
- Anti-drip function ensures dispense accuracy.
- Three dispense modes available. **Time Dispense Mode:** automatically dispense by setting the duration for each dose, lag time between doses and number of cycles. **Volume Dispense Mode:** automatically dispense by setting the volume for each dose, lag time between doses and number of cycles. **Copy Dispense Mode:** automatically dispense by setting the total volume to dispense, lag time between doses and number of cycles.
- Store five groups of working parameters for each dispense mode (power-off memory).
- Flow rate display and control; cumulative dispense volume display.
- Flow rate calibration.
- 0.2% accuracy, high precision rotating speed control with 0.1 rpm speed resolution. Operating system incorporates an intuitive setup wizard to configure the system.
- Logic level signal can control start/stop, direction and dispense modes; external analog signals can also adjust pump rotating speed. Signals are optically isolated for safety.
- With RS485 MODBUS interface it is easy to communicate with external device.
- Internals are electrically double isolated in construction. The main circuit board is conformal coated which makes it dust-proof and moisture proof.
- Incorporates Anti-electromagnetic interference features, together with a wide input voltage range for complex power environment.
- ABS plastic housing with a streamlined design.
- Drive multi-channels and various types of pump heads at once.
- Optional foot switch and infrared remote control.

KEY FEATURES

Flow Range:	0.006-570 mL/min
Speed range:	0.1-150 rpm
Speed resolution / accuracy:	0.1 rpm / 0.2%
Control:	Touchscreen display
Consumption:	< 30W
Working environment:	Environment 0~ 40°C humidity <80%
Dimension size:	(L x W x H): 257 x 182 x 1987mm
Drive weight:	4.5 kg
Dimension (L x W x H):	112mm x 96mm x 96mm

INTELLIGENT FLOW PERISTALTIC PUMPS



IP0665 BT100F Intelligent Flow Peristaltic Pump with DT10-48 Head

BT100F intelligent peristaltic pump provides a flow range from 0.0002 to 82mL/min (with DT10-48 head). Stainless steel enclosure is easy to clean, resistant to the corrosion of acids, alkali, sodium and organic solvents. It offers an intuitive and clear interface with colour LCD touch screen, coupled with advanced features such as flow rate calibration and an anti-drip function for accurate flow transfer.

Easy Dispense Mode is available to dispense the recorded volume by pressing the DISPENSE key or using an optional foot switch.

The system minimises working noise due to the intelligent fan cooled control. With RS485 MODBUS interface, the pump is easy to communicate with an external device, such as PC, HMI or PLC.

	DESCRIPTION
Flow Range	0.0002-82mL/min
Speed range:	0.1-150 rpm
Speed resolution:	0.1 rpm
Speed accuracy:	0.2%
IP grade:	IP31
Communication interface:	RS485 MODBUS
External logic level control signal:	5V, 12V (standard), 24V (optional). External analog control signal: 0-5V (standard); 0-10V, 4-20mA (optional)
Power/Consumption	AC 240, 60Hz/<40watts
Dimension:	(L x W x H):226 x 150 x 238mm

BT100F KEY FEATURES:

- Bright and clear colour LCD display, touch screen and keypad for ease of operation.
- Reversible direction, start/stop control and adjustable speed.
- Flow rate calibration.
- Flow rate display and control; Cumulative dispense volume display for quick reference.
- Anti-drip function ensures dispense accuracy.
- 0.2% accuracy, high precision rotating speed control with 0.1 rpm speed resolution.
- Precise motor control technology improves dispense accuracy
- Easily configurable via an intuitive setup wizard.
- Intelligent temperature control to minimise noise.
- Logic level signal can control start/stop, direction and dispense modes; external analog signals can also adjust pump rotating speed. Signals are optically isolated for safety.
- The RS485 MODBUS interface, allows easy communication with an external device.
- Internals are electrically double isolated in construction. The main circuit board is conformal coated which makes it dust-proof and moisture proof.
- Resistant to electromagnetic interference
- Stainless steel enclosure is easy to clean, resistant to the corrosion of acid, alkali, sodium and organic solvents.
- Drive multi-channels and various types of pump heads.
- Optional foot switch and infrared remote control.

Rowe Scientific Service and Repair



We can help keep your peristaltic pumps running accurately and reliably.

Ask our service department how we can help protect your long term laboratory investment.

BASIC VARIABLE SPEED PERISTALTIC PUMPS



IP0467 BQ80S Microflow
Variable-Speed Peristaltic Pump



IP0891 BT102S Microflow
Variable-Speed Peristaltic Pump

BQ80S KEY FEATURES:

- Simple to operate, small portable size and easy to install. Suitable for equipment which requires an ancillary device and for laboratory use.
- Provides a flow range from 0.004 to 77 mL/min
- 0.5% accuracy, high precision rotating speed control with 0.1 rpm speed resolution. Speed range 0.1-80 rpm.
- Membrane keypad interface with a clear four-digit LED display to indicate speed and working mode.
- Reversible direction, start/stop and adjustable speed to fine tune operation.
- Connection via RS485 MODBUS interface to communicate with an external device.
- The circuit board with conformal coating makes it dust-proof and moisture-proof.
- Logic level signal can control start/stop, direction and dispense modes; external analog signals can also adjust pump rotating speed. Signals are optically isolated for safety.
- Optional foot switch and infrared remote control.

BT102S KEY FEATURES:

- Small and portable with a stainless steel enclosure which is easy to clean, resistant to corrosion of acid, alkali, sodium and organic solvents.
- Provides a flow range from 0.0001 to 480 mL/min with a choice of pump heads and tubing.
- 0.5% accuracy, high precision rotating speed control with 0.1 rpm speed resolution. Speed range 0.1-100 rpm.
- Reversible direction, start/stop control and adjustable speed with easy Dispense Mode.
- Membrane keypad interface with a clear four-digit LED display to indicate speed and working mode.
- External logic level signal can control start/stop, direction and dispense function; external analog signal can adjust the rotating speed. Signal is optically isolated.
- With RS485 MODBUS interface, its easy to communicate with an external device.
- Internals are electrically double isolated in construction. The main circuit board is conformal coated which makes it dust-proof and moisture proof.

KEY FEATURES	
Flow Range	0.004-77 mL/min
Speed range:	0.1-80 rpm
Speed resolution:	0.1 rpm
Speed accuracy:	0.5%
IP grade:	IP31
Communication interface:	RS485 MODBUS
External logic level control signal:	5V, 12V (standard), 24V (optional). External analog control signal: 0-5V (standard); 0-10V, 4-20mA (optional)
Power/Consumption	AC 240, 50Hz/10watts
Dimension:	(L x W x H): 135mm x 96mm x 96mm

KEY FEATURES	
Flow Range	0.0001-480 mL/min
Speed range:	0.1-100 rpm
Speed resolution:	0.1 rpm
Speed accuracy:	0.5%
IP grade:	IP31
Communication interface:	RS485 MODBUS
External logic level control signal:	5V, 12V (standard), 24V (optional). External analog control signal: 0-5V (standard); 0-10V, 4-20mA (optional)
Power/Consumption	AC 240, 50Hz/30watts
Dimension:	(L x W x H): 224 x 127 x 128 mm

Rowe Scientific, your **'one stop shop'** laboratory supply partner.

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We have a comprehensive range of gear pumps, peristaltic pumps, syringe pumps, tubing and accessories for your liquid dispensing requirements. Contact us today for more information on your specific needs.



TUBES, HEADS AND ACCESSORIES

PERISTALTIC PUMP HEADS

ROWE CODE	DESCRIPTION
IL0092	LEADFLUID PART, PUMP HEAD YT15 WITH 4 ROLLERS, PPS SUITABLE FOR TUBE SIZES 13# 14# 19# 25# 17# 18# (YT15)
IL0136	LEADFLUID PART, PUMP HEAD DG 1 CHANNEL WITH 6 ROLLERS, SUITABLE FOR TUBE WITH Wall: 0.8-1, ID: <=3.17 (DG6-1)



L0092 LEADFLUID PART, PUMP HEAD YT15 WITH 4 ROLLERS

PERISTALTIC PUMP TUBING

ROWE CODE	DESCRIPTION
PT0368	TUBING 13#, 0.8mm I.D., 4.0mm O.D., 1.6mm WALL, SILICONE
PT0369	TUBING 14#, 1.6mm I.D., 4.8mm O.D., 1.6mm WALL, SILICONE
PT0373	TUBING 15#, 4.8mm I.D., 9.8mm O.D., 2.5mm WALL, SILICONE
PT0309	TUBING 16#, 3.1mm I.D., 6.3mm O.D., 1.6mm WALL, SILICONE
PT0371	TUBING 17#, 6.4mm I.D., 9.6mm O.D., 1.6mm WALL, SILICONE
PT0372	TUBING 18#, 7.9mm I.D., 11.1mm O.D., 1.6mm WALL, SILICONE
PT0374	TUBING 24#, 6.4mm I.D., 11.4mm O.D., 2.5mm WALL, SILICONE
PT0342	TUBING 25#, 4.8mm I.D., 8.0mm O.D., 1.6mm WALL, SILICONE



IL0136 LEADFLUID PART, PUMP HEAD DG 1 CHANNEL WITH 6 ROLLERS



Not sure? Ask us for help..

There are a wide variety of pump drive and pump head combinations available to solve your laboratory liquid dispensing needs.

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