

BioDuo Pro FLP 2L (ATEX) with Rotor suitable for 1.6 mm wall thickness tubing with flame proof power socket and flame proof cable (1.5 meters cable length).

Mode: DOSING

With *Communication Interface –

- a) Serial (RS232)
- b) Analog i2V (4-20mA)

- **Body made up of Cast Aluminum Alloy LM-6 with SS 316L Cladding**

Flameproof – Weatherproof Control Panel with Cable Glands.

Type: SE/102 UNIT 1,2,3,4,5

⚠ I 2 G Ex db IIC T6 Gb IP66 (-20° C ≤ Tamb ≤ + 40° C)



FEATURES

- Completely corrosive free pump.
- The 4.3" capacitive IPS Touch Screen makes navigating the functions and configuration of pump settings effortless.
- Pump Head is placed such that tube loading becomes convenient where the inlet and outlet of tubing comes in front.
- On-screen indicators provide clear visibility of pump running direction.
- The pump also indicates errors on screen display.
- Screen Lock feature avoids accidental control changes enhancing security of operations.
- ATEX Housing is as per CE rating and IP66 ingress protection.
- Unit setting: a) Volume: µL, mL, ltr. b) Weight: mg, g, kg.
- Calibration: a) Advanced Dose, b) Quick Dose & c) Quick Flow.
- Dosing / Filling & Flow volume input.
- Batch size can be programmed maximum up to 9999 with time interval in (mm:ss) (minutes:seconds).
- Recipe storage up to maximum 100.
- Inbuilt Timer
- Date & Time setting.
- Pump maintains up to 2 bar pressure across the continuous tubing.
- Contamination free/aseptic liquid transfer.
- Significant space advantage which is crucial in every industry.

TUBE SIZES COMPATIBLE WITH BIODUO PERISTALTIC PUMP

Tubing Sizes (Number)		16#	25#	17#	18#	-
Wall Thickness	mm	1.6				
	inch	1/16				
Inside Diameter	mm	3.2	4.8	6.4	7.9	9.5
	inch	1/8	3/16	1/4	5/16	3/8
Outer Diameter	mm	6.4	8	9.6	11.1	12.7
	inch	1/4	5/16	3/8	7/16	1/2
RPM Range		0.1 ~ 200				
Programmable Flow/Dos mL./Min. (Min. ~ Max.)		0.5 ~ 310	0.5 ~ 625	0.6 ~ 1050	0.8 ~ 1600	1.5 ~ 2000

TECHNICAL SPECIFICATIONS

Body of Pump	Made up of Cast Aluminum Alloy LM-6 with SS 316L Cladding
Display	4.3" capacitive IPS Touch Screen
Pump Head	Made of ABS/PPS material
Rotor Assembly	Made of SS316L
Motor	BLDC stepper motor of 20 kg/cm ² torque
Power Supply AC Input	230V, 50 Hz, 6A
RPM Range	0.1 ~ 200
Tubing Size:	ID 3.2mm up to 9.5 mm with tube wall thickness of 1.6 mm
Flow Rate Range: (Min. & Max.)	0.5 mL/min up to 2000 mL/min
Dosing / Filling Range:	Suggested from 1 ml. & upwards
Operating Temperature	5°C to 40°C
Pressure	up to 2 Bar
Noise Level:	< 60dB(A)

STANDARD ACCESSORIES:

a) Operating Manual

VALIDATION DOCUMENT:

- IQ/OQ Documents for BioDuo pumps.

SUITABLE TUBE SIZES:

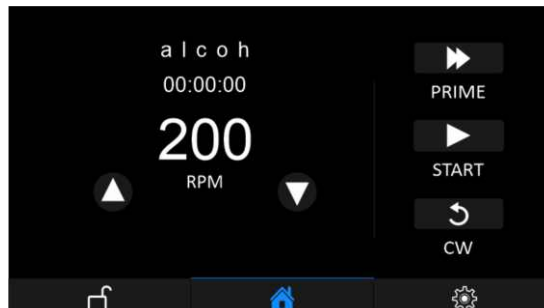
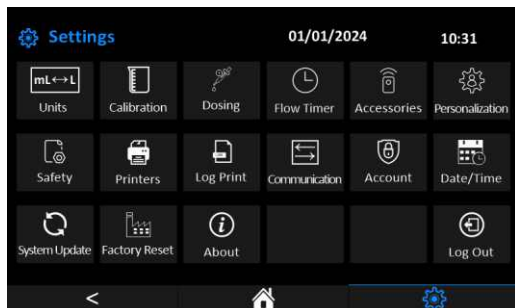
Silicone Tube - ID: 3.2 mm X OD: 6.4 mm - (16#)

Silicone Tube - ID: 4.8 mm X OD: 8 mm - (25#)

Silicone Tube - ID: 6.4 mm X OD: 9.6 mm - (17#)

Silicone Tube - ID: 7.9 mm X OD: 11.1 mm - (18#)

Silicone Tube - ID: 9.5 mm X OD: 12.7 mm



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