

Glide Drive 60



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leading the way in high-precision dispensing



Glide Drive 60 Syringe Pump

Innovadyne's Glide Drive 60 is the elegant solution for microliter fluid handling. With a small footprint (8 in (203 mm) height, 2.2 in (56 mm) width, 4.1 in (104 mm) depth) and a light weight of 2.25 lbs (1.02 kg), the GD 60 is the most compact and lightest syringe pump of its kind available today.

The GD 60 accommodates both chassis and cavity parameters of existing equipment, and may be used as a drop-in component to replace existing dispensing equipment or integrated into new product designs, thus minimizing bench space. The standard product includes an assembly of the valve motor, drive motor, and the electronics. Syringes, selector valves and faceplates are optional.

Features

- The pump produces precise displacement for the aspiration and dispensing of a wide variety of fluids for many applications. Dispense accuracy is within 1%, and precision is <0.1% CV at full stroke measured with a 1 ml syringe.
- The pump's reliable drive and valve mechanism assures that it will operate quietly and precisely (MTBF 1 million cycles).
- The zero backlash mechanism eliminates the need for software compensation.
- The recommended electrical interface RS-232 enables programmable syringe speeds and ramps.
- An inert valve and interconnect components ensure compatibility with clinical diagnostic fluids and reagents. It is also compatible with clinical diagnostic industry standard controllers and syringes.

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Glide Drive 60 Specifications

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Technical Specifications

Bench Footprint	Height: 8 in (203 mm) Width: 2.2 in (56 mm) Depth: 4.1 in (104 mm)
Weight	2.25 lbs (1.02 kg)
Ambient Conditions	Temperature range: 15 to 40 °C
Communication	RS-232, 3-Wire, Zero-Delay Multidrop
Addressing	16 individually addressable syringe pumps
Firmware	Programmable syringe speeds and ramps
Power	24VDC \pm 5% @ 1.5 A
Integration	The Glide Drive 60 is designed to be mounted to a 1/8th inch (3.2 mm) thick faceplate

Performance Specifications

Accuracy	<1% CV
Precision	< 0.1% CV at full stroke measured with 1 ml syringe
Stroke length	2.36 in (60 mm)
Maximum Counts	2000 steps
Plunger Speed	1 second full stroke maximum, 200 seconds full stroke minimum
Optional Equipment	2.5 μ l, 5 μ l, 25 μ l, 50 μ l, 100 μ l, 250 μ l, 500 μ l, 1 ml, and 5 ml syringes
Syringe Interface	Locking Dowel Pin and Luerlock fitting for rapid attachment
Valve Features	3-Port valve with 1/4-28 UNF Fittings, "L" valve ports, 90° between ports 250 ms switching time with position sensor feedback Home position PTFE valve plug, PTFE valve body

(specifications subject to change)

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