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NIM-PAO-2 Medical Injection Pump and Infusion Pump Detector



The Medical Syringe Pump and Infusion Pump Tester (hereinafter referred to as the Tester) is a newly-developed product.It can effectively calibrate and trace flow-rate and occlusion-alarm error parameters of medical syringe pumps and infusion pumps.

Complying with equipment requirements specified in JJG 1098-2014 *Verification Regulation for Medical Syringe Pump and Infusion Pump Testers* and JJF 1259-2018 *Calibration Specification for Medical Syringe Pumps and Infusion Pumps*, this tester can calibrate various models of medical syringe pumps and infusion pumps from different manufacturers. It satisfies quantity-value transfer requirements of the national metrological verification system and meets the criteria for establishing public social metrological standards.

Technical Features

- Dual-channel standard configuration, enabling simultaneous measurement of two infusion pumps or syringe pumps.
- The slave unit is equipped with a display screen. It can work standalone or docked to the master unit. The slave unit connects to an APP for waveform viewing. Built-in rechargeable battery provides battery life ≥ 8 hours, supporting long-duration on-site and mobile testing.
- The master unit assists in judging flow-rate stability; pop-up prompt box changes color once stable status is detected. Pre-programmed regulation test points are available. It

automatically calculates errors and generates Excel-format raw records; supports file transfer via USB flash drive or WeChat.

- Wide-range back-pressure setting and simulation capability: back-pressure setting range from (−27 ~ 85) kPa. It can test flow-rate accuracy and stability of infusion pumps under pressurized conditions.
- External interfaces: TYPE-C, USB.
- Communication: Bluetooth, Wi-Fi; system firmware update available via USB.

Technical Specifications

Parameter	Specifications
Flow Rate	Maximum Permissible Error (MPE) & Repeatability - [1 ~ 20) mL/h: MPE ±2 %, repeatability 1 % - [20 ~ 200] mL/h: MPE ±1 %, repeatability 0.5 % - (200 ~ 3000] mL/h: MPE ±2 %, repeatability 1 %Resolution - [0 ~ 1) mL/h: 0.0001 mL/h; [1 ~ 10) mL/h: 0.001 mL/h - [10 ~ 100) mL/h: 0.01 mL/h; [100 ~ 1000) mL/h: 0.1 mL/h - [1000 ~ 3000] mL/h: 1 mL/h
Cumulative Flow:Measure 20 mL cumulative flow within flow-rate range (20 ~ 200) mL/h; MPE ±1 %	
Occlusion Pressure:Measuring range: (−27 ~ 380) kPa; Resolution: 0.01 kPa; MPE ±2.0 kPa	
Configurable Back-pressure:Setting range (−27 ~ 85) kPa; Maximum permissible error: ≤ ± (1 % + 0.6 kPa)	

Product Configuration

Tester master unit, tester slave unit, data connection cable, dedicated connecting tubing, user manual