FlowTrax® Technical Specifications

Pressure Performance

Range: Manual: -12.5 to +75 PSI, Electronic Occlusion (IV pump Testing): 0 - 40 PSI
Accuracy: 0.5% of reading +/- 1 LSD
Resolution: .01 PSI
Units of Measure: mmHg, PSI (G), inH20, cmH2O, kPa, atm, inHg, BAR (A), BAR (G)

Flow and Volume Performance

Range: 0.5 to 999 ml/hr
Accuracy*: 1% of reading ± 1 LSD for 1ml/hr to 999ml/hr, 2% ± 1 LSD below 1ml/hr. 0.85% of reading for 500ml/hr, 12ml Volume under steady flow conditions. Requirement for Accuracy:

Flow Rate	Required Volume/Time
.5 to 10ml/hr	0.5ml
10.1 to 199ml/hr	3 minutes (see "Flow Rate and Volume Accuracy - Time vs. Volume" Section in Op. Manual)
200 to 999ml/hr	10ml

Precision

Volume: ≤ 0.01ml

Precision of FlowTrax is equivalent to 0.01 g based on the conversion of volume (ml) to weight (g) by calculation using standard temperature and density value of water. Precision was established using a rate of 500ml/hr and a "dispensed" volume of 10ml.

Temperature Performance

Range: -28.9 to +115.5°C
Accuracy: 0.1% +/- 0.2 °C
Resolution: 0.1 °C

Digital Timer / Stopwatch

Range: 0 to 12 Hours
Accuracy: 0.5%

General

Power: Powered by two AA (Alkaline or Lithium) cells or 6 VDC Input
Battery: Alkaline: min. 4 hours (3 hrs. with Bluetooth), Lithium: min. 12 hours (11 hrs. with Bluetooth)
Size (HxWxD): 5.5 in (13.97 cm) x 3.25 in (8.26 cm) x 2 in (5.08 cm)

Environmental:

Operating: Temperature: 10°C to 35°C (50°F to 95°F), Relative Humidity: 10 to 80% non-condensing,
Altitude: 3,000m (9,843ft)
Storage: -20°C to +60°C (-4°F to +140°F) with water drained and brought to operating temp before use.

*Requirements for Flow Rate and Volume accuracy specification: Distilled water as test solution, output bottle height of 0 to 18" (45.7 cm) above FT output, FT horizontal for rates below 21ml/hr, vertical for rates at or above 21ml/hr.