

CATHETER PRESSURE TRANSFER & FLOW TESTER



Catheter Pressure Transfer & Flow Tester – ToronMed™ PTFT03 is designed to measure and evaluate the pressure transfer characteristics and flow performance of medical devices such as catheters, infusion sets, and respiratory tubes. By simulating clinical pressure and fluid transfer conditions, this tester provides reliable data to ensure that devices perform safely, consistently, and in compliance with international standards.

Standards Compliance

The ToronMed™ PTFT03 Catheter Pressure Transfer & Flow Tester is designed to comply with relevant ISO and EN standards for medical device performance testing, supporting global regulatory requirements for catheter and breathing system validation.

Standard Configuration

- Main instrument unit
- Integrated touchscreen interface
- Micro printer
- Standard test connectors

Why Choose Catheter Pressure Transfer & Flow Tester – ToronMed™ PTFT03?

The Pressure Transfer Flow Tester – ToronMed™ PTFT03 combines accuracy, automation, and reliability to support the validation of medical devices in both R&D and quality control settings. With advanced flow regulation, large-capacity data storage, and compliance with international standards, the Pressure Transfer Flow Tester is an essential solution for ensuring the performance and safety of catheters, breathing tubes, and infusion systems.

APPLICATIONS

- Catheters
 - Infusion catheters
 - Drainage catheters
 - Urinary catheters
- Respiratory Devices
 - Breathing tubes
 - Anesthesia circuits
 - Trachea cannulas
- Other Medical Tubing
 - Peritoneal catheters
 - Flexible medical hoses

FEATURES

- Advanced Microcomputer Control

Embedded high-speed controller with streamlined interface ensures precise operation and reliable performance.
- 7-Inch HD Touchscreen

Real-time display of test curves and data improves visibility and test management.
- Built-In Safety Systems

Overvoltage protection and power-off memory safeguard test continuity and maintain system stability.
- High-Accuracy Flow and Pressure Control

Electronic flow controllers provide stable, repeatable flow regulation under variable pressure conditions.
- Customizable Test Modes

Pressure, flow, and dwell time can be preset for flexible test cycles tailored to specific applications.

- Large-Capacity Data Storage
Internal memory capable of storing up to 100,000 test results, with automated pass/fail judgment.
- Connectivity & Reporting
RS232 interface for PC data transfer and integrated printer for immediate reporting.

THEORY & METHOD

Test Principle

The Pressure Transfer Flow Tester applies controlled pressure and flow to the test specimen, such as a catheter or breathing tube, while continuously monitoring flow stability and pressure drop. By replicating real-world conditions, the tester provides accurate, repeatable data on fluid transfer efficiency, resistance, and device safety.

TECHNICAL SPECIFICATIONS

Specification	Value
Test Pressure Range	(to be specified – typical: 0–600 kPa)
Flow Rate Range	(to be specified – typical: 0–500 ml/min)
Accuracy	$\leq \pm 1\%$ FS
Dwell Time	0–60 min
Gas Supply Pressure	0.4–0.7 MPa (customer-supplied)
Gas Supply Port	Φ8 mm PU Tubing

Specification	Value
Voltage	AC 220V 50Hz / AC 110V 60Hz
Net Weight	Approx. 25 kg
Dimensions	310 × 370 × 150 mm

(Values can be updated once your original technical sheet is provided.)



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