

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.

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

Standard Configuration

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



Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 🇨🇦

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 🇺🇸

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 🇦🇪

Phone: +971 488 19252
Email: me@torontech.com

