

Technical Data

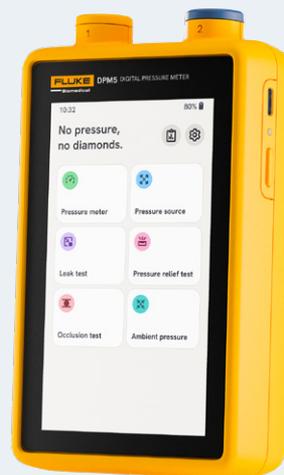


DPM5

Digital Pressure Meter

Modernizing Medical Pressure Testing: Precision, Portability, and Performance

The DPM5 Digital Pressure Meter puts efficiency and precision first with its internal pressure pump, eliminating the need for manual pressure generation to help ensure seamless, reliable testing. This modern, portable solution is engineered for the rigorous demands of medical device pressure testing, featuring a versatile dual-port system for accurate measurement of both dry gas and liquid pressures.



From patient monitors and blood pressure meters to infusion pumps and ventilators, the DPM5 handles a broad range of applications. Its intuitive touch screen interface and preloaded measurement apps simplify common tests like occlusion, leakage, and valve assessments.

Whether testing an electric tourniquet, or verifying a dialysis pump, the DPM5 streamlines workflow and enhance functionality, delivering a smarter, faster, and more efficient way to help ensure the safety and performance of medical devices.

Key Features

- Dual-port functionality with Port 1 supporting dry non-corrosive gas (pressure range 0–1200 mmHg/ 0–23 PSI, with pump) and Port 2 supporting dry gas or water (pressure range -725–7500 mmHg/-14–150 PSI).
- Ideal for testing patient monitors, blood pressure meters, CPAP/BPAP devices, syringe and infusion pumps, dialysis machines, insufflators, and more.
- Includes preloaded measurement apps for common pressure tests such as occlusion, leakage, valve tests, pressure source, and atmospheric pressure.
- Features an intuitive touch screen interface for setting targets and reviewing results—quick to learn and easy to use.
- Built-in pressure source with an integrated pump, ideal for testing devices like blood pressure meters, dialysis machines, and electric tourniquets.
- Lightweight and battery-operated for portable, on-the-go testing that saves time and simplifies workflows.

Enjoy precision, compliance, and total peace of mind through our comprehensive service and coverage program, eliminating unexpected costs with our Protect+ Program.

General Specifications

Complete and up-to-date specifications, including footnotes, found in the Safety Instructions.

Safety standard	Complies with IEC 61010-1:2010, pollution degree 2
EMC standard	Complies with IEC 61326-1:2013
Dimensions (w x d x h)	90 x 37 x 154 mm (3.5 x 1.46 x 6.1 inches)
Weight	400 grams (0.88 pounds)
Operating temperature	+10 to +40 °C (+50 to +104 °F)
Operating humidity	10 - 90 %, non-condensing
Storage temperature	-20 to +50 °C (-4 to +122 °F)
Storage humidity	5 - 95 %, non-condensing
Atmospheric pressure	70 - 107 kPa, altitude up to 3000 m (10 000 ft)
Battery	Built-in rechargeable lithium-ion. (<3600 mAh, 3.6V)
Battery life	>24h continuous measurement use.
Charging	5 V DC, 2 A
Connectivity	USB-C for charging and PC communication
Display	5-inch touch screen
Data storage	> 4,000 measurements
Mounting	Standard 1/4" tripod thread

Measurement Specifications

Measurement units	mmHg, inHg, psi, mbar, bar, atm, kPa, cmH ₂ O, inH ₂ O
Barometer	
Range	65-110 kPa
Accuracy	± 1%
Port 1	
Medium	Dry non-corrosive gases only
Connector	Male Luer-Lock
Range	0 - 1200 mmHg (0 - 23 psi)
Accuracy	± 0.2 % or ± 0.5 mmHg (whichever is greater) Additional 0.02% per °C for temperatures < 20 °C and > 25 °C
Resolution	0.1 mmHg
Pressure source range	10 - 1200 mmHg ¹
Pressure source accuracy	± (1 % + 1 mmHg)
Pressure source resolution	1 mmHg
Pressure relief test range	100 - 1200 mmHg
Internal leak rate	< 0.5%/min or <1 mmHg/min (whichever is greater), while connected to a 500 mL rigid volume

¹ 1100 mmHg > 2500 m

Port 2	
Medium	Dry non-corrosive gases and water
Connector	Miniature quick-connect plug
Range	-725 - 7500 mmHg (-0.96 - 10 Bar)
Accuracy	± 0.5 % or ± 2 mmHg (whichever is greater)
Resolution	0.1 mmHg
Internal leak rate	< 0.5%/min or <1 mmHg/min (whichever is greater), while connected to a 500 mL rigid volume

Ordering information

Models/Description

6050647 DPM5 Digital Pressure Meter

Standard accessories

- 6124045 DPM5 Tubing Kit
- BPMonitor connection male, Barb 5/32 (4.0 MM) ID Tubing
 - BPMonitor connection female - 5/16-24 UNF Thread To 200 Series. Barb 5/32 (4.0 MM) ID Tubing
 - 2 x Luer lock male - Barb, 5/32" (4.0 MM) ID Tubing
 - 2 x Luer lock female - Barb, 5/32 (4.0MM) ID Tubing
 - 2 x quick connect fitting - 165IN OD Barb, Brass, Electroless Nickel PL
 - 1 x quick connect plug - 5/32 Inch Hose Barb Bayonet Conn, White Nylon
 - 1 Y-connector - Y Adapter. 3/16 (4.8 MM) ID Tubing
 - 2 x T-connector - 1/8 (3.2 MM) ID Tubing
 - 2 feet of soft silicon tubing - .125 ID,.25 OD
 - 2 feet of medium tubing - 1/8 Inch ID, 1/4 Inch OD, Clear Vinyl
 - 2 feet of hard tubing - Polyurethane Tubing, OD 0.250 Inch, ID 0.125 Inch

6050652 Power Supply

Service and Calibration Plans

6141774 Protect+ Annual SVC Program, Prepaid

6141788 Protect+ Annual SVC Program, Non-Prepaid

Protect+ is engineered to provide you with the highest level of service and assurance for your test equipment. As a global leader in medical device testing, safety, and quality, Fluke Biomedical holds an ISO 17025 certification, underscoring their expertise, quality, and reliability as a partner in assurance, testing, inspection, and certification services.

About Fluke Biomedical

Fluke Biomedical is the world's leading manufacturer of quality biomedical test and simulation products. In addition, Fluke Biomedical provides the latest medical imaging and oncology quality-assurance solutions for regulatory compliance. Highly credentialed and equipped with a NVLAP Lab Code 200566-0 accredited laboratory, Fluke Biomedical also offers the best in quality and customer service for all your equipment calibration needs.

Today, biomedical personnel must meet the increasing regulatory pressures, higher quality standards, and rapid technological growth, while performing their work faster and more efficiently than ever. Fluke Biomedical provides a diverse range of software and hardware tools to meet today's challenges.

Fluke Biomedical regulatory commitment

As a medical test device manufacturer, we recognize and follow certain quality standards and certifications when developing our products. We are ISO 9001 and ISO 13485 medical device certified and our products are:

- CE Certified, where required
- NIST Traceable and Calibrated
- UL, CSA, ETL Certified, where required
- NRC Compliant, where required

Fluke Biomedical

We empower our everyday heroes to focus only on protecting lives.

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3/2026 24008a-en

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