

DPM

Digital Pressure Monitor

Portable, battery-powered system engineered to interface directly with Deltran style pressure transducers for accurate live pressure measurement and user field calibration. The DPM features selectable mmHg or PSI units, while wirelessly recording and exporting data over Wifi through a built-in browser interface for real-time monitoring and .csv export from any PC, making it ideal for flow-loop testing and in-vitro device validation.

System Features

Pressure Range	(-999 to 999) mmHg or (-19.3 to 19.3) PSI
Sampling Rate	About 40 Samples Per Second
Power Source	USB-C Port & Rechargeable Battery (2Ah)
Data Export	Exports .CSV file to PC via Wifi
Enclosure	(76*48*46)mm - PLA or ABS

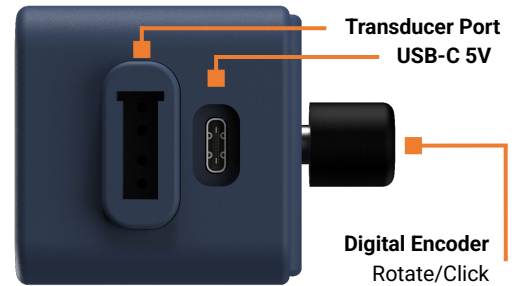


Key Applications

- Research & Development • In-Vitro Device Testing • Catheter & Valve Evaluation
- Hemodynamic Pressure Monitoring and Validation • Waveform Characterization

Data Set Sample

PC wirelessly connected to the DPM through the DPM Wi-Fi network. Browser-based UI accessed. Data was recorded, exported, opened in Excel, and graphically plotted.



Count	mmHg	PSI	Battery_V
1	-0.072	-0.001	5.8
2	-0.002	0	5.8
3	0.033	0.001	5.8
4	-0.098	-0.002	5.8
5	0.021	0	5.8
6	0.031	0.001	5.8
7	-0.148	-0.003	5.8
8	-0.054	-0.001	5.8
9	-0.064	-0.001	5.8
10	0.044	0.001	5.8
11	-0.083	-0.002	5.8
12	0.076	0.001	5.8
13	-0.123	-0.002	5.8
14	-0.151	-0.003	5.8
15	0.022	0	5.8
16	-0.129	-0.002	5.8
17	1.168	0.023	5.8
18	93.528	1.809	5.8
19	100.551	1.944	5.8
20	117.238	2.267	5.8
21	116.947	2.261	5.8
22	117.716	2.276	5.8
23	124.062	2.399	5.8
24	120.123	2.323	5.8
25	119.497	2.311	5.8
26	118.547	2.292	5.8
27	88.187	1.705	5.8
28	-57.834	-1.118	5.8
29	-70.423	-1.362	5.8
30	-78.674	-1.521	5.8
31	-77.142	-1.492	5.8
32	-78.782	-1.523	5.8
33	-80.369	-1.554	5.8
34	-81.679	-1.579	5.8
35	-83.158	-1.608	5.8

