

ARMSTRONG



Differential Pressure Manometer

FILE NO:	36.15
DATE:	May 26, 2008
SUPERSEDES:	36.15
DATE:	Oct 7, 2004

Armstrong DPM

The Differential Pressure Manometer (DPM) is a rugged, digital instrument used to measure the pressure drop or pressure gain across hydronic system components. The DPM is available in either 0-15 psi or 0-100 psi measurement range for precise adjustment of circuit balancing valves, and to monitor circulator performance. The unit can measure gauge or differential pressure and can store up to 40 readings for later recall. The operator can select from a variety of Imperial and metric measurement units to suit the hydronic system design data. Valuable safety features include visible and audible instrument over-range warning alarms and backlit display for work in poorly illuminated areas. The lightweight, compact DPM design is easy to use in the tight, overhead spaces commonly encountered when balancing or troubleshooting hydronic systems.

► Features and Benefits

- Compatible with any hydronic system fluid.
- Select any of seven Imperial/metric units available.
- Stores up to 40 readings in memory for later reference.
- Visible and audible pressure over-range alarms.
- Battery powered, compact and light.

► Technical Data

Service	Compatible, non-combustible gases & liquids	
Wetted Materials	Type 316L Stainless Steel	
Accuracy	±0.5% of full scale from 60°F - 78°F (15°C - 25°C) ; ±1% of full scale from 32°F - 60°F and 78°F - 104°F (0°C - 15°C and 25°C - 40°C)	
Measurement Range	DPM-15	0 - 15 psi (0 - 1.0 bar)
	DPM-100	0 - 100 psi (0 - 6.9 bar)
Maximum Pressure	DPM-15	30 psi (2.0 bar)
	DPM-100	200 psi (13.0 bar)
Selectable Pressure Units	psi, in. H ₂ O, in. Hg, mm Hg, kPa, bar and mbar	
Operating Temperature Range	32°F - 200°F (0°C - 93°C)	
Storage Temperature	-4°F - 176°F (-20°C - 80°C)	
Pressure Hysteresis	±0.1% of full scale	
Connections	Two 1/8" female NPT	
Adapters	Two 1/4" male SAE adapters included	
Display	0.42" (10.6 mm) 4 1/2 digit LCD with units indicators	
Power Source	9 V alkaline battery (included)	
Battery Life	Up to 100 hours (less when LCD backlight used)	
Agency Approvals	CE	



► Carrying Case Includes:

- Made of durable resin material.
- Impact-resistant foam packing.
- Flexible hoses (one red and one blue) complete with fittings:
 - 1/4" female SAE flare straight fitting (connects to 1/4" SAE adapters on meter)
 - 1/4" female SAE 45° elbow fitting (connects to measuring probes)
- Two pressure measuring probes with adapter fittings.
- Two Armstrong ARMflo venturi-style CBV balancing slide rules.
- One Armstrong CBV Balancing Wheel.

► Dimensions and Weights

Model	Height	Width	Depth	Weight
DPM-15	5 7/8 (150)	2 3/4 (70)	7/8 (20)	0.90 (0.4)
DPM-100				
Carrying Case plus hoses & fittings	13 1/2 (343)	17 (432)	4 1/2 (114)	5.85 (2.6)

Note: All dimensions are in inches (mm) and weights in lbs (kg)

EXPERIENCE BUILDING...

S. A. Armstrong Limited
23 Bertrand Avenue
Toronto, Ontario
Canada, M1L 2P3
T: (416) 755-2291
F (Main): (416) 759-9101

Armstrong Pumps Inc.
93 East Avenue
North Tonawanda, New York
U.S.A., 14120-6594
T: (716) 693-8813
F: (716) 693-8970

Armstrong Holden Brooke Pullen
Wenlock Way
Manchester
United Kingdom, M12 5JL
T: +44 (0) 161 223 2223
F: +44 (0) 161 220 9660



© S.A. Armstrong Limited 2008

For Armstrong locations worldwide, please visit www.armstrongpumps.com