

FLOW MEASUREMENT USING VENTURI, ORIFICE METER, PITOT TUBE & U TUBE MANOMETER [Model: TMS-POV]



Pitot tube for air



SALIENT FEATURES

- Integrated, Venturi, Orifice & Pitot tube experiments trainer, devices made of Acrylic to facilitate easy understanding of internals.
- Can order 1 of 3 or 2 of 3 or 3 of 3 etc. options, Ask for quotation.
- Pitot tube can used for both water & air (optional) flow measurement. Order for air separately.
- Lightweight, sturdy, tabletop, Aluminium profile flat demo panel setup, with SS (304/316) piping and wide angle view of every component in process. No hidden parts.
- Connection through polarized FRC connectors, sturdy 4mm Banana sockets & Patch cords enabling quick setting up of variety of flow measurement experiments.

Sr.	Parameters	Venturi	Orifice	Pitot tube for water	Pitot tube for air
1	Medium	Water using CP			Air using compressor
2	Flow rate	100-800 LPH			20-50 LPM
3	Dimension [LxD] mm	126 x 40	100 x 50	210x60	
4	Inlet/outlet dia.	0.5 inch BSP			8.5mm
5	Pressure port	1/4" BSP internal tapping 2 nos. for QRC adaptor			4mm OD SS tube 100 mm x 2 nos.
6	U tube Manometer	100-0-100mm with Hg			100-0-100mm with colour water
7	DP sensor	Model : SX05, Pressure range : 0 - 5 PSI			
8	Tee	Brass 0.25 inch x 2 nos., SS 0.5 inch x 3 nos.			SS 0.5 inch x 2 nos.
9	Ball valve (SS)	0.25 inch x 2 nos., 0.5 inch x 8 nos.			0.5 inch x 4 nos.
10	Rotameter	1000 LPH			50 LPM
11	Piping	SS 3/4 piping 0.5 inch, 6 x 4 PU tube for DP / manometer 500mm x 4 nos.			
12	Medium circulation	0.5HP centrifugal pump for water			Air compressor:8 bar
13	Measuring tank	10 litre Acrylic			-
14	Sump tank	25 litre Acrylic			-
15	Resource panels	EMT8, MIT1 with differential pressure sensor mounted inside			
16	Experiments	1. Flow measurement by using resistive type electronic pressure sensor & venturi 2. Flow measurement by using U tube manometer, rotameter & venturi, 3. CC, CV & CD determination for venturi	1. Flow measurement by using resistive type electronic pressure sensor & orifice 2. Flow measurement by using U tube manometer, rotameter & orifice 3. CC, CV & CD determination for orifice	Water flow measurement using pitot tube	Air flow measurement using pitot tube
17	Mech. Dimension	1165[L]x 300[W] x 990[H]			530[L] x 300[W]x910[H]
18	Nt. Wt. / Gr. Wt.	30 kg/ 38kg			15 kg/ 20kg