

MPB SERIES 640S DUAL TUBE FLOW METERS

The MPB Series 640S Dual Tube Flowmeter is designed for measuring two instantaneous flow rates of virtually any process liquids or gases simultaneously. The principle of operation of the flowmeter is quite simple:-

The height attained by the float in its tapered flow tube is directly related to a calibrated scale. The flow should be read from the centre of the ball, or top of a plumb bob float.

This flowmeter offers very low flows down to 2-20cc/min (Air).

The Series 640S Dual Tube Flowmeter has rear facing connections as standard and the flowmeters are supplied complete with 2 x M4 mounting studs.

Whilst MPB Industries supply an extensive range of standard flow tubes, MPB can design and manufacture flow tubes for virtually any gas or liquid and calibrate for a wide range of process conditions (*please contact our sales office*).

For increased flow rates and higher scale resolution, please see our technical literature MPB Series 1040S and 1240S (technical bulletins MPBTB 104 and 100).



SERIES 640S FEATURES

- * DIRECT READING OF INSTANTANEOUS FLOW RATES
- * WIDE RANGE OF STANDARD FLOW RANGES
- * EASY TO READ SCALES
- * FRICTIONLESS, HENCE LOW HEAD LOSS
- * 56MM TUBE LENGTH
- * STANDARD OR CUSTOMISED FLOW SCALES
- * VALVED OR NON-VALVED VERSIONS
- * REAR FACING CONNECTIONS
- * STAINLESS STEEL CONNECTIONS
- * POLYCARBONATE SAFETY COVER
- * MINIMAL MAINTENANCE
- * REAR OF PANEL MOUNTING KIT AVAILABLE
- * LONG SERVICE LIFE
- * ALARM VERSIONS AVAILABLE
- * EASY TUBE REMOVAL IN-SITU

Typical applications include analytical instrumentation, gas flow control, small dosing systems, purge metering, leak detection and blending systems, or any requirement for a dual tube arrangement.

Typical industries served include brewing, gas analysis, pharmaceutical, aerospace, engine testing, paper, water treatment, oil and gas, etc, etc.

640S DUAL TUBE FLOWMETER

Chassis:	Anodised aluminium to BSEN12373/AA25	Ball Floats:	Glass, Stainless steel, Ruby, Tungsten
End Blocks:	Stainless steel	Plumb Bob Floats:	Anodised aluminium Stainless steel
Process Connections:	1/8" BSPPF	Weight:	400 grams
Cover:	Polycarbonate	Maximum Working Pressure:	Gas: up to 20 bar g (non shock) Liquid: up to 20 bar g (non shock)
Seals:	Viton	Maximum Working Temperature:	60°C Nitrile 100°C Viton
Metering Tube:	Borosilicate glass	Accuracy:	± 5% FSD for predicted scales ± 3% FSD for calibrated scales
Scale:	Permanently fired (black)		

STANDARD RANGES

AIR @ 1013 mbar abs 20°C	WATER @ 20°C
2 – 20 cc/min	–
5 – 50 cc/min	–
10 – 100 cc/min	5 – 50 cc/min
25 – 250 cc/min	10 – 100 cc/min
50 – 500 cc/min	25 – 250 cc/min
0.1 – 1.0 L/min	50 – 500 cc/min
0.2 – 2.5 L/min	
0.5 – 5.0 L/min	
1.0 – 10 L/min	
2.0 – 20 L/min	

Customised flow ranges are available.
Please consult BES Flowmeters to select the required flow range for the process fluid used.