

Features

- IP67 (Nema 4X) 316L stainless steel or aluminium construction
- Nominal flow range 700 20000 lph (3 - 88 USGPM)
- Performance independent of flow profile or mounting orientation
- Single moving part
- Pressure to 100 bar (1500 psi)
- Temperature to 150°C (300°F)
- Both open collector and reed switch outputs as standard
- Measures low and high viscosity liquids up to 1,000,000 centipoise
- Adaptable to hygienic applications

Options

- Threaded, flanged or hygienic process connections
- Explosionproof or intrinsically safe operation
- Integral or remote self powered flow rate-totaliser with scaled pulse, analog and flow alarm outputs (see separate data sheet)
- Integral or remote high speed preset batch controller (see separate data sheet)

QUALITY

Data Sheet No.SLMP050-0601

AND SIMPLICITY

IN FLOW

MEASUREMENT

Multipulse 50mm (2") Positive Displacement Flowmeters



Overview

Multipulse PD flowmeters utilise's the widely accepted oscillating piston design principle with the performance enhanced by the use of modern engineering materials to provide a cost effective and reliable solution for a wide range of industrial flow measurement applications.

Design Simplicity

Its simple and robust design offers the advantage of only one moving part with both high resolution open collector and reed switch outputs as standard.

As each piston rotation passes a known liquid volume, the inherent repeatability of the Multipulse positive displacement flowmeter makes it particularly suited to batching and dispensing duties.

Application Flexibility

Commonly metered liquids range from non conductive low viscosity solvents through to extremely viscous lubricants, chemicals and food bases.

Application flexibility is further enhanced as meter performance is independent of flow profile eliminating the restrictive need for straight pipe runs required with most alternate metering technologies.

Multipulse has no stagnate chambers to harbor contaminants. There is no restrictions on mounting orientation and the flowmeter may be operated under vacuum flow, pumped flow or gravity flow conditions.



	SPECIFICATIONS		
Model Prefix	MP050S	MP050A	MP050H
Body Material	316L stainless steel	Aluminium	316L stainless steel
Nominal Flow Range*	700 to 20000 lph (3 to 88 USGPM) * Turndown (flow range) varies in accordance with effective viscosity of metered liquid		
Accuracy	±0.5% of rate Accuracy and turndown can be improved utilising the linearisation feature of the Trimec RT flow rate totaliser		
Repeatability	Typically ±0.03% under steady flow conditions		
Maximum Pressure	38 Bar (560 psi)	20 Bar (300 psi)	100 Bar (1500 psi)
Temperature Range	Three ranges covering operation from - 40 to 150°C (- 40 to 300°F) limited to 80°C (176°F) with integral electronic register		
Piston Material	PEEK (polyetheretherketone), optional carbon filled teflon For special materials - consult factory		
O-Ring Material	viton, EPR (EPDM), teflon encapsulated viton or nitrile (Buna-N)		
Reed Switch Output	30vdc maximum voltage, 20mA maximum current Pulse resolution: nominally 2.5 pulses / litre (9.5 pulses / US gallon)		
Open Collector Output	5 to 24vdc (25vdc maximum) 3 wire NPN (sinking current) 20mA maximum current - 1000 metres (3300 ft) maximum transmission Pulse resolution: nominally 20 pulses / litre (76 pulses / US gallon)		
Electrical Connection	M20 x 1.5 or 1/2" NPT female entries		
Process Connections	2" BSPP or NPT 2" ANSI 150/300RF flanges DN50 PN16/40 flanges 65mm triclamp hygienic (others on request)	2" BSPP or NPT (Lap Joint Flanges on request)	2" BSPP or NPT (others on request)
Environmental Protection	IP67 (Nema 4X), optionally flameproof to Exd IIB T4 (Class 1, Groups C & D)		
Recommended Filtering	500 microns (25 mesh)		

Remote Mounting Options for 100 Series Electronics



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