


Inline Pelton Wheel flowmeter with integral flow straighteners, providing a pulse output.

Model Type	Flow Rate Range	Pressure Drop
<b>LMXS.003 or LMX.003*</b>	0.004 to 0.060 l/min	0.18 bar @ 0.03 l/min; 0.7 bar @ 0.06 l/min
<b>LMXS.005 or LMX.005</b>	0.006 to 0.100 l/min	0.18 bar @ 0.05 l/min; 0.7 bar @ 0.10 l/min
<b>LMX.01</b>	0.01 to 0.25 l/min	0.33 bar @ 0.125 l/min; 1.3 bar @ 0.25 l/min
<b>LMX.05</b>	0.02 to 1.3 l/min	0.18 bar @ 0.65 l/min; 0.74 bar @ 1.3 l/min
<b>LMX.24</b>	0.03 to 4.3 l/min	0.3 bar @ 2 l/min; 1.2 bar @ 4.3 l/min
<b>LMX.45</b>	0.04 to 6.3 l/min	0.23 bar @ 3 l/min; 1.3 bar @ 6.3 l/min
<b>LMX.48</b>	0.06 to 8 l/min	0.30 bar @ 4 l/min; 1.2 bar @ 8 l/min
<b>LMX.90</b>	0.08 to 15 l/min	0.25 bar @ 9 l/min; 0.7 bar @ 15 l/min
<b>LMX.220</b>	0.1 to 28 l/min	0.24 bar @ 10 l/min; 1.8 bar @ 28 l/min
<b>LMX.12.5</b>	1 to 65 l/min	0.2 bar @ 32l/min; 0.9 bar @ 65 l/min

\*Lower flows on request

### Common Features:

Pressure Rating	LMXS.003 & 005	30bar	
	LMX.	100bar	
Temperature Rating		100° C	
Viscosity Range		Up to 10 cPs; ring factory if higher	
Accuracy		±2% of actual reading for the top 90% of range. ±0.5% FSD for the bottom 10% of range. [003 and 005 linearisation required]	
Repeatability		±0.2% reading over top 90% of range	
Pipe Size	LMXS.003 and 005	LMXS: 8mm OD tube for optional Swagelok fittings to ¼" NPT, ¼" BSP. Other options available on request. LMX: ½" NPT and BSP normally in stock.	
	LMX.	1/2" BSP or NPT male (Specify at time of order)	
End to end length/Weight		180mm. LMXS003 and 005 can be reduced in length to 80mm; less than 2kg	
Body and Internals		316SS with Teflon PFA rotor and sapphire/sapphire bearings, sealed ferrites on rotor	
Seal		PTFE Gasket (LMXS003 and 005 use FPM O ring)	
External materials of sensing electronics		316SS or 303SS and anodised aluminium	
Output & Power		NPN open collector with 4-way M12 sensor connector [IEC-61076-2-101] – e.g. compatible with Brad Harrison, Hirschmann, ERNI and Turck Banner. Supplied with 5m cable – bare ends. 8 to 28Vdc input.	

### Options:

Output	PNP or TTL (identified by green or blue cap respectively). Also divide by 2, 4 or 10 function
Connections	Plain OD pipe for butt welding (as on LMXS) or flanges available in alternate styles
Flow rate, temperature and pressure	Alternate ratings available in different sizes and styles, consult factory for further details
Seals	FEP covered Silicon, EPDM or Kalrez® for chemical protection
IS Hazardous Area Version ATEX	Available in alternate styles to EEx ia IIC T5 – consult factory for further details (limited to process temperatures up to 70°C) Consult factory for input and output data. Housed in an IP65 epoxy coated die-cast aluminium body-mounted enclosure with 5pin DIN socket.
SB or BB IS Electronics pickup	For use either when instrumentation is also included in the hazardous area or an M20 gland is required. Body-mounted stainless steel or Naval Brass IP68 enclosure, one or two M20x1.5 gland entries.

### Documentation:

Operating and Maintenance Manual	LM0093 with General Information LM0092
Installation Drawing	C5220
Conformity:	These products conform to PED and EMC. ATEX option available.

## Flowmeter Specification Sheet

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