

## LMHa+ Series

Pelton Wheel flowmeter with Hastelloy body, providing a pulse output

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

\*Lower flows on request

### Common Features:

Pressure Rating	10bar
Temperature Rating	70°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. [LMX003 and 005 linearisation required]
Repeatability	±0.2% reading over top 90% of range
Pipe Size	1/4" BSP or NPT male (Specify at time of order)
Weight	Less than 2kg
Body and Internals	Hastelloy – client to advise grade required – and PFA with Teflon PFA rotor and sapphire/sapphire bearings
Ferrites	Sealed
Seal	Teflon or Teflon encapsulated FPM or FPM 'O' ring (subject to chemical compatibility)
Wetted parts of sensing electronics	Teflon PFA
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 4 and divide by 10 function
Connections	Plain OD pipe for butt welding or flanges available in alternate sizes and 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)
SB IS Electronics pickup	For use when instrumentation is also included in the hazardous area.

### Documentation:

Operating and Maintenance Manual	LM0094 with General Information LM0092
Installation Drawing	C4725 standard or C5132 I.S. version

**These products conform to PED and EMC. ATEX option available.**