


LMSS+ Series

Pelton Wheel flowmeter with high pressure 316 stainless steel body, providing a pulse output.

| Model Type | Flow Rate Range | Pressure Drop |
|---------------|----------------------|--|
| LMSS100.003** | 0.004 to 0.060 l/min | 0.18 bar @ 0.03 l/min; 0.7 bar @ 0.06 l/min |
| LMSS100.005 | 0.006 to 0.100 l/min | 0.18 bar @ 0.05 l/min; 0.7 bar @ 0.10 l/min |
| LMSS100.01 | 0.01 to 0.25 l/min | 0.33 bar @ 0.125 l/min; 1.3 bar @ 0.25 l/min |
| LMSS100.05 | 0.02 to 1.3 l/min | 0.18 bar @ 0.65 l/min; 0.74 bar @ 1.3 l/min |
| LMSS100.24 | 0.03 to 4.3 l/min | 0.3 bar @ 2 l/min; 1.2 bar @ 4.3 l/min |
| LMSS100.45 | 0.04 to 6.3 l/min | 0.23 bar @ 3 l/min; 1.3 bar @ 6.3 l/min |
| LMSS100.48 | 0.06 to 8 l/min | 0.30 bar @ 4 l/min; 1.2 bar @ 8 l/min |
| LMSS100.90 | 0.08 to 15 l/min | 0.25 bar @ 9 l/min; 0.7 bar @ 15 l/min |
| LMSS100.220 | 0.1 to 28 l/min | 0.24 bar @ 10 l/min; 1.8 bar @ 28 l/min |
| LMSS100.330* | 0.3 to 33 l/min | 0.3 bar @ 16 l/min; 1.2 bar @ 33 l/min |

* Special Order **Lower flows on request

Common Features:

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|---|--|--|
| Pressure Rating | 100 bar [optional 30 bar, 345 bar and 690 bar; max design 2068 bar; replace 100 with pressure rating in meter code] |  |
| Temperature Rating | 135°C – refer calibration certificate; depends on connection type, sensor type, pressure and design. (IS version – ambient temperature -40°C to +60°C, process temperature max 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. [003 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, BSP normally in stock); [Welded flanges/Wafer fitting/MP process connections to suit application requirements for higher pressures and flanges up to 2" ANSI2500.] | |
| Weight | Less than 2kg [Wafer fit, 345 bar & higher: weights on application] | |
| Body and Internals | 316SS with Teflon PFA rotor and sapphire/sapphire bearings. Sealed ferrites. | |
| Seal | PTFE gasket [30 bar and 200 bar have Viton O ring, higher pressure versions may have Inconel O Ring] | |
| Wetted parts of sensing electronics | 316SS | |
| 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:

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| Output | PNP or TTL (identified by green or blue cap respectively). Also divide by 2, 4 or 10 function |
| Connections | Other BSP/NPT male or female threads or plain OD pipe for butt welding or wafer/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 |
| 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:

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|----------------------------------|---|
| Operating and Maintenance Manual | LM0095 with General Information LM0092 |
| Installation Drawing | C4721 standard or C6039 (30bar) or ask factory advice |
| Conformity: | These products conform to PED and EMC. ATEX option available. |

Flowmeter Specification Sheet

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