


LMGN+ Series

Low cost, plastic bodied Pelton Wheel flowmeter with push-on hose connections, providing a pulse output.

Model Type	Flow Rate Range	Pressure Drop
LMGN.003*	0.004 to 0.060 l/min	0.18 bar @ 0.03 l/min; 0.7 bar @ 0.06 l/min
LMGN.005	0.006 to 0.100 l/min	0.18 bar @ 0.05 l/min; 0.7 bar @ 0.10 l/min
LMGN.01	0.01 to 0.25 l/min	0.33 bar @ 0.125 l/min; 1.3 bar @ 0.25 l/min
LMGN.05	0.02 to 1.3 l/min	0.18 bar @ 0.65 l/min; 0.74 bar @ 1.3 l/min
LMGN.24	0.03 to 4.3 l/min	0.3 bar @ 2 l/min; 1.6 bar @ 4.3 l/min
LMGN.45	0.04 to 6.3 l/min	0.16 bar @ 3 l/min; 0.71 bar @ 6.3 l/min
LMGN.90	0.08 to 15 l/min	0.33 bar @ 7.5 l/min; 1.33 bar @ 15 l/min
LMGN.220	0.1 to 28 l/min	0.19 bar @ 10 l/min; 1.5 bar @ 28 l/min

*Lower flows on request

Common Features:

Pressure Rating	2 bar 70°C; 5 bar 40°C		
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. [003 and 005 linearisation required]		
Repeatability	±0.2% reading over top 90% of range		
Pipe Size	LMGN except 220	Push on Hose Connections – hose id is 8mm	
	LMGN.220	Push on Hose Connections – hose id is 11mm	
Weight	Less than 1kg		
Body and Internals	316SS with Teflon PFA rotor and sapphire/sapphire bearings		
Ferrites	Sealed		
Seal	FPM 'O' ring (subject to chemical compatibility).		
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:

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 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 with a threaded body 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.

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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