


LMTi+ Series

Pelton Wheel flowmeter with titanium body, providing a pulse output.

Model Type	Flow Rate Range	Pressure Drop
LMTI50.003**	0.004 to 0.060 l/min	0.18 bar @ 0.03 l/min; 0.7 bar @ 0.06 l/min
LMTI50.005	0.006 to 0.100 l/min	0.18 bar @ 0.05 l/min; 0.7 bar @ 0.10 l/min
LMTI50.01	0.01 to 0.25 l/min	0.33 bar @ 0.125 l/min; 1.3 bar @ 0.25 l/min
LMTI50.05	0.02 to 1.3 l/min	0.18 bar @ 0.65 l/min; 0.74 bar @ 1.3 l/min
LMTI50.24	0.03 to 4.3 l/min	0.3 bar @ 2 l/min; 1.2 bar @ 4.3 l/min
LMTI50.45	0.04 to 6.3 l/min	0.23 bar @ 3 l/min; 1.3 bar @ 6.3 l/min
LMTI50.48	0.06 to 8 l/min	0.30 bar @ 4 l/min; 1.2 bar @ 8 l/min
LMTI50.90	0.08 to 15 l/min	0.25 bar @ 9 l/min; 0.7 bar @ 15 l/min
LMTI50.220	0.1 to 28 l/min	0.24 bar @ 10 l/min; 1.8 bar @ 28 l/min
LMTI50.330*	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:

Pressure Rating	50 bar	
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 1kg [Wafer fit, 345 bar & higher: weights on application]	
Body and Internals	Commercially pure titanium with Teflon PFA rotor and sapphire/sapphire bearings. Sealed ferrites.	
Seal	PTFE gasket	
Wetted parts of sensing electronics	CP Titanium	
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	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:

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

tel: 01296 670200
 fax: 01296 670999
 freephone: 0800 018 3001
 email: sales@litremeter.com