

# MMTi+ Series



# LITREMETER


Specialist flow measurement engineering

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

Model Type	Flow Rate Range	Pressure Drop	Pipe Size	Weight
<b>MMTI50.12.5</b>	1 to 65 l/min	0.2 bar @ 32l/min; 0.9 bar @ 65 l/min	½" BSP female	2.5 kg
<b>MMTI50.20</b>	2 to 130 l/min	0.17 bar @ 65 l/min; 0.69 bar @ 130 l/min	¾" BSP female	2.5 kg
<b>MMTI50.25</b>	3 to 160 l/min	0.17 bar @ 80 l/min; 0.69 bar @ 160 l/min	1" BSP female	4 kg
<b>MMTI50.30</b>	5 to 220 l/min	0.17 bar @ 110 l/min; 0.69 bar @ 220 l/min	1¼" BSP female	4 kg
<b>MMTI50.37</b>	7 to 350 l/min	0.17 bar @ 175l/min; 0.7 bar @ 350 l/min	1 ½" Wafer fitting	4 kg
<b>MMTI50.50</b>	10 to 500 l/min	0.17 bar @ 250 l/min; 0.7 bar @ 500 l/min	2" Wafer fitting	4 kg
<b>MMTI50.62*</b>	20 to 800 l/min	0.17 bar @ 400 l/min; 0.7 bar @ 800 l/min	2 ½" Wafer fitting	kg
<b>MMTI50.75*</b>	25 to 1300 l/min	0.17 bar @ 650 l/min; 0.7 bar @ 1300 l/min	3" Wafer fitting	kg
<b>MMTI50.100*</b>	25 to 2200 l/min	0.17 bar @ 1100l/min; 0.7 bar @ 2200 l/min	4" Wafer fitting	kg
<b>MMTI50.150*</b>	100 to 5000 l/min	0.17 bar @ 2500 l/min; 0.7 bar @ 5000 l/min	6" Wafer fitting	kg
<b>MMTI50.200L*</b>	300 to 5500 l/min	0.17 bar @ 4000 l/min; 0.7 bar @ 8000 l/min	8" Wafer fitting	kg

\* Special Order

## 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	
Body and Internals	Commercially pure titanium with PFA rotor and sapphire/sapphire bearings. Sealed ferrites.	
Seal	PTFE gasket	
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
<b>IS</b> 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.
<b>SB</b> or <b>BB</b> 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	LM0114 with General Information LM0092
Installation Drawing	C3564 or C4726 and general installation C3729 or ask factory advice
Conformity:	These products conform to PED and EMC. ATEX option available.

## Flowmeter Specification Sheet

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