

MX 100 – 4” DIGITAL FLOW METERS

SUITABLE FOR FLOW RANGE 120–1200L/MIN



MX100F-1SE
Aluminiumsteel body with LCD register

Output variations:



B -Ex approved (Ex ia)
IntrinsicallySafe -NPN
N -Ex approved (Ex ia)
IntrinsicallySafe -NAMUR
T -High Temperature
Max temp-150°C



F -ER
LCD Display (17mm)
G-ERA
LCD Display (17mm)
H-ERB
LCD Display (17mm)
Batch controller



D -PR
LCD Display (12mm)
E -PRA
LCD Display (12mm)
with outputs



A -Standard Pulse
Reel/Hall Effect
I -Standard Pulse
Reel/Reed Effect
J -Standard Pulse
Hall/Hall Effect
K -High Resolution
Hall NPN

The MX100 4” Digital Flow Meter are suitable for flows between 120–1200L/min. The 4” Digital Flow Meters have an accuracy of +/-0.5% and provides exceptional levels of reliability and durability.

SPECIFICATIONS

	MX100F		MX100S	
Materials of Construction	Meter Body Cast Aluminium(6061)		Cast Aluminium(6061)	
	Rotor Aluminium(6061)		Aluminium(6061)	
	Seals Fluorocarbon(FKM)		PTFE encapsulated(FEP)	
Design Specifications	Threaded	Flange	Threaded	Flange
Process Connections	3” G 3” NPT	ANSI CLASS 150 DIN PN16 J IS 10k	3” G 3” NPT	ANSI CLASS 150 DIN PN16 J IS 10k
Technical Specifications	<5cP	>5cP	<5cP	>5cP
Flow rate	220–1000L/min 60–250USG/min	120–1200L/min 31.7–317USG/min	220–1000L/min 60–250USG/min	120–1200L/min 31.7–317USG/min
Operating Temperature Range*	-40 –120°C -40 –248°F		-40 –120°C -40 –248°F	
Max. Operating Pressure**	175 psi 12 bar		175 psi 12 bar	
Accuracy	+/-0.5%		+/-0.5%	
Repeatability	+/-0.03%		+/-0.03%	
Nominal K-Factor	2.3 Pulses/L		2.3 Pulses/L	

*Temperature based on standard pulse output –subject to change dependant on rotor and output type, contact Macnaught technical support for further investigations

**Pressure rating subject to change as per flange rating



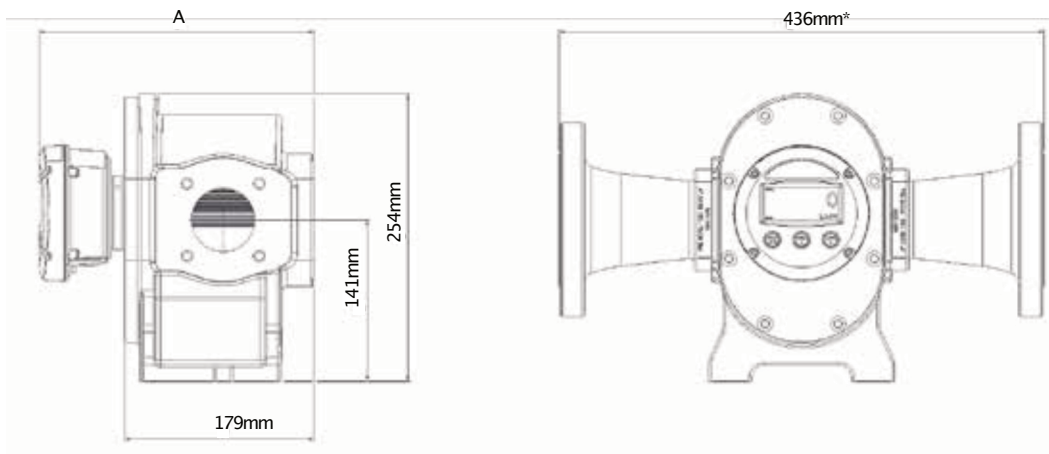
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OUTPUTS TYPES

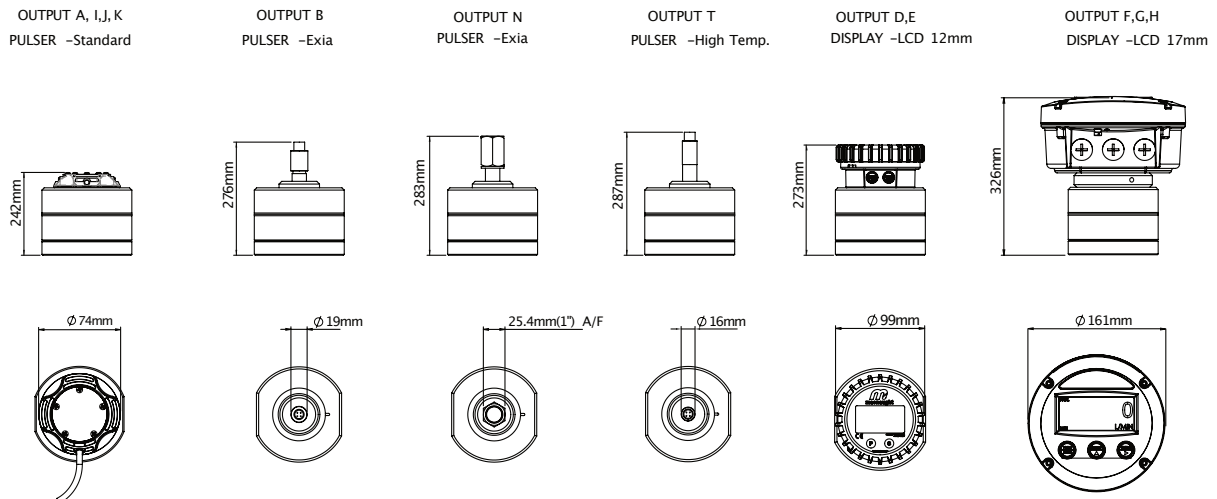
	DESCRIPTION	SWITCH TYPE	OUTPUT TYPE	MX100F	MX100S
X	No Output	-	No Output	●	●
A	Standard Pulse	Reed / Hall (NPN)	Pulse (1m flying lead)	●	●
B	Ex approved (Ex ia)	Hall (NPN)	Pulse (2mDIN cable)	—	●
D	PR (LCD 12mmdisplay)	-	Display 12mm	●	●
E	PRA (LCD 12mmdisplay)	-	Display 12mm, 4-20mA output, Pulse	●	●
F	ER (LCD 17mmdisplay)	-	Display 17mm	●	●
G	ERA (LCD 17mmdisplay)	-	Display 17mm, 4-20mA output, Pulse	●	●
H	ERB (LCD 17mmdisplay)	-	Display 17mm + Batch Control	●	●
N	ExApproved (Exia NAMUR)	NAMUR	Pulse (2mDIN cable)	—	●
T	High Temperature	Hall (NPN)	Pulse	✗	●
I	Reed/Reed	Reed/Reed	Pulse (1m flying lead)	—	—
J	Hall/Hall	Hall/Hall	Pulse (1m flying lead)	—	—
K	High Resolution (omnipolar)	Hall (NPN)	Pulse (1m flying lead)	—	—

● Available ✗ Not Available S Only with stainless steel rotors — Consult Macnaught Technical regarding availability

DIMENSIONS



PULSER AND DISPLAY HEIGHT -A



*Length subject to change refer to appendix B (pg. 88) for full dimension variations