

# MX100 – 4” DIGITAL FLOW METERS

SUITABLE FOR FLOW RANGE 120-1200L/MIN



**MX100F-1SE**  
Aluminium steel body with LCD register

Output variations:



- B - Ex approved (Ex ia)**  
Intrinsically Safe - NPN
- N - Ex approved (Ex ia)**  
Intrinsically Safe - NAMUR
- T - High Temp. Pulse**  
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	
<b>Materials of Construction</b> Meter Body Rotor Seals	Cast Aluminium (6061)		Cast Aluminium (6061)	
	Aluminium (6061)		Aluminium (6061)	
	Fluorocarbon (FKM)		PTFE encapsulated (FEP)	
<b>Design Specifications</b> Process Connections	<b>Threaded</b>	<b>Flange</b>	<b>Threaded</b>	<b>Flange</b>
	3" G 3" NPT	ANSI CLASS 150 DIN PN16 JIS 10k	3" G 3" NPT	ANSI CLASS 150 DIN PN16 JIS 10k
<b>Technical Specifications</b> Flow rate Operating Temperature Range* Max. Operating Pressure** Accuracy Repeatability Nominal K-Factor	<b>&lt;5cP</b>	<b>&gt;5cP</b>	<b>&lt;5cP</b>	<b>&gt;5cP</b>
	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
	-40 - 120°C -40 - 248°F		-40 - 120°C -40 - 248°F	
	175 psi 12 bar		175 psi 12 bar	
	+/- 0.5%		+/- 0.5%	
	+/- 0.03%		+/- 0.03%	
	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

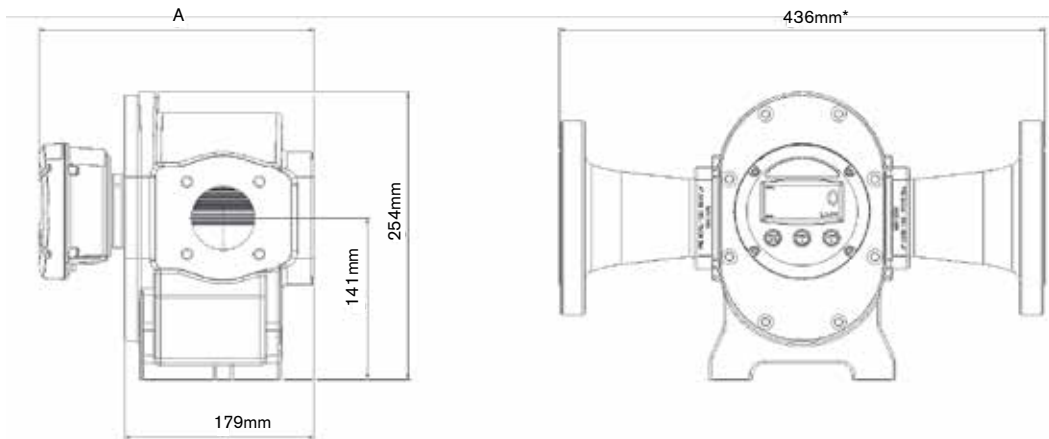
## OUTPUTS TYPES

	DESCRIPTION	SWITCH TYPE	OUTPUT TYPE	MX100F	MX100S
<b>X</b>	No Output	-	No Output	●	●
<b>A</b>	Standard Pulse	Reed /Hall (NPN)	Pulse (1m flying lead)	●	●
<b>B</b>	Ex approved (Ex ia)	Hall (NPN)	Pulse (2m DIN cable)	—	●
<b>D</b>	PR (LCD 12mm display)	-	Display 12mm	●	●
<b>E</b>	PRA (LCD 12mm display)	-	Display 12mm, 4-20mA output, Pulse	●	●
<b>F</b>	ER (LCD 17mm display)	-	Display 17mm	●	●
<b>G</b>	ERA (LCD 17mm display)	-	Display 17mm, 4-20mA output, Pulse	●	●
<b>H</b>	ERB (LCD 17mm display)	-	Display 17mm + Batch Control	●	●
<b>N</b>	Ex Approved (Ex ia NAMUR)	NAMUR	Pulse (2m DIN cable)	—	●
<b>T</b>	High Temp. Pulseerature	Hall (NPN)	Pulse	✘	●
<b>I</b>	Reed/Reed	Reed/Reed	Pulse (1 m flying lead)	—	—
<b>J</b>	Hall/Hall	Hall/Hall	Pulse (1 m flying lead)	—	—
<b>K</b>	High Resolution (omnipolar)	Hall (NPN)	Pulse (1 m flying lead)	—	—

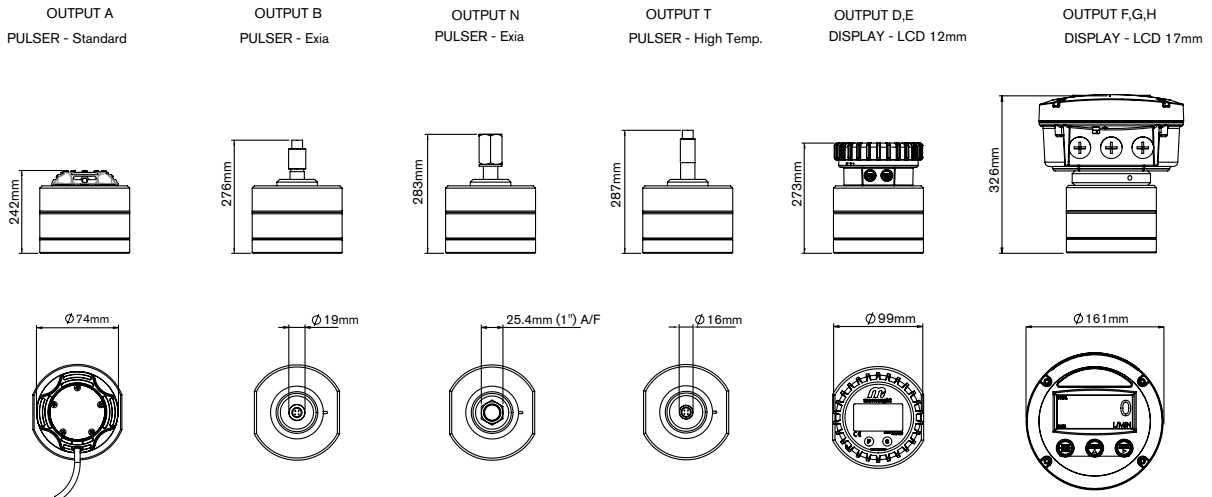
● Available   ✘ Not Available   S Only with stainless steel rotors   — Consult Macnaught Technical regarding availability

MX-SERIES FLOW METERS

## DIMENSIONS



### PULSER AND DISPLAY HEIGHT - A



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