

MX 25 – 1" DIGITAL FLOW METERS

SUITABLE FOR FLOW RANGE 6–120L/MIN



MX25P-1SE
Stainless 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 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 MX25 1" Digital Flow Meters are suitable for flows between 6–120L/min. The 1" Digital Flow Meters have an accuracy of $\pm 0.5\%$ and provides exceptional levels of reliability and durability.

SPECIFICATIONS

	MX25F		MX25S		MX25P	
Materials of Construction Meter Body	Aluminium(6061)		Aluminium(6061)		Stainless Steel (316)	
	Rotor		Stainless Steel (316)		PPS Stainless Steel (316)	
	Seals		PTFE encapsulated(FEP)		PTFE encapsulated(FEP)	
Design Specifications Process Connections	Threaded 1" G 1" NPT	Flange ANSI CLASS 150 DIN PN16 J IS 10k	Threaded 1" G 1" NPT	Flange ANSI CLASS 150 DIN PN16 J IS 10k	Threaded 1" G 1" NPT	Flange ANSI CLASS 150 DIN PN16 J IS 10k
Technical Specifications Flow rate	<5cP 10–100L/min 2.6–26USG/min	>5cP 6–120L/min 1.6–32USG/min	<5cP 10–100L/min 2.6–26USG/min	>5cP 6–120L/min 1.6–32USG/min	<5cP 10–100L/min 2.6–26USG/min	>5cP 6–120L/min 1.6–32USG/min
Operating Temperature Range*	–40 –80°C –40 –176°F		–40 –120°C –40 –248°F		–40 –80°C (150°C with high temp. rotors) –40 –176°F (302°F with high temp. rotors)	
Max. Operating Pressure**	2000 psi 138 Bar		2000 psi 138 Bar		2000 psi 138 Bar	
Accuracy	$\pm 0.5\%$		$\pm 0.5\%$		$\pm 0.5\%$	
Repeatability	$\pm 0.03\%$		$\pm 0.03\%$		$\pm 0.03\%$	
Nominal K-Factor	36 Pulses/L		36 Pulses/L		36 Pulses/L	

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

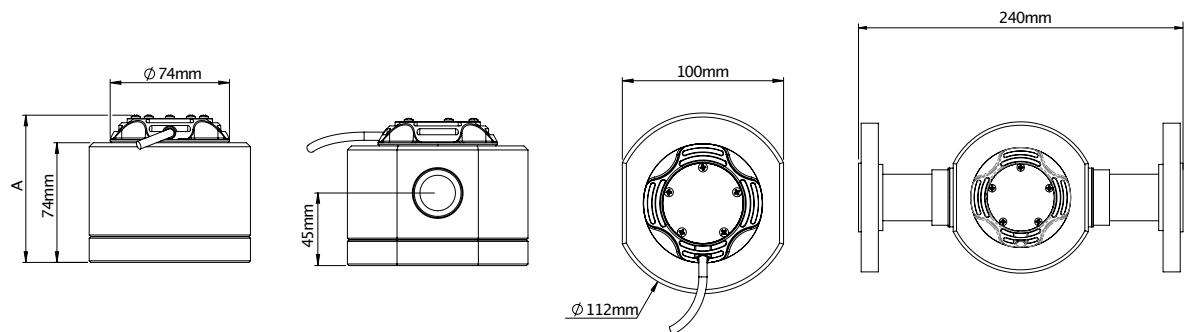
**Pressure rating subject to change as per flange rating

OUTPUTS TYPES

	DESCRIPTION	SWITCH TYPE	OUTPUT TYPE	MX25F	MX25S	MX25P
X	No Output	–	No Output	●	●	●
A	Standard Pulse	Reed /Hall (NPN)	Pulse (1m flying lead)	●	●	●
B	Ex approved (Ex ia)	Hall (NPN)	Pulse (2m DIN cable)	—	●	●
D	PR (LCD 12mm display)	–	Display 12mm	●	●	●
E	PRA (LCD 12mm display)	–	Display 12mm, 4–20mA output, Pulse	●	●	●
F	ER (LCD 17mm display)	–	Display 17mm	●	●	●
G	ERA (LCD 17mm display)	–	Display 17mm, 4–20mA output, Pulse	●	●	●
H	ERB (LCD 17mm display)	–	Display 17mm + Batch Control	●	●	●
N	Ex Approved (Exia NAMUR)	NAMUR	Pulse (2m DIN cable)	—	●	●
T	High Temperature	Hall (NPN)	Pulse	✗	S	S
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



PULSAR AND DISPLAY HEIGHT – A

