

INTRINSICALLY SAFE (Ex ia) SENSORS FOR HAZARDOUS AREA NOW AVAILABLE IN MX-SERIES

Introduction

The **MX-SERIES** range of oval gear flow meters feature:

- High precision billet construction for enhanced material integrity and process reliability.
- Programmable digital displays and numerous pulse output options.
- Various threaded and flanged process connections.

Macnaught is proud to now extend its range of pulse output options to include Ex ia approved NAMUR sensors for hazardous areas.

Specifications

Our **MX-SERIES** flow meters with Ex ia pulse output features:

- Pressure ratings up to 2000psi/138 bar.
- 316 stainless steel or 6061 anodized aluminium flow meter body and oval gear rotor construction, with FEP seals.
- 303 stainless steel sensor body construction.
- Operating voltage: 8-15Vdc @ 5mA.
- Process temp range: -25°C - 70°C / -13°F - 158°F
- Sensor Type: Magnet-Inductive Proximity (NAMUR)
- AWG Cable Length: 2M, cable connector internal thread M12x1
- Accuracy of ±0.5% of reading, and ±0.03% repeatability.

Certifications

ATEX & IECEx:

II 1 G Ex ia IIC T4...T6 Ga

US:

Class 1, Division 1

GROUP ABCD T4 resp. T5

Class 1, Zone 0, AEx/Ex ia IIC T5...T4

T5 @ -25°C ≤ Tamb ≤ +70°C

Entity Parameters: Ui = 20V, Ii = 60mA, Pi = 200mW, Ci = 150nF, Li = 150uH



Refer to certificates for appropriate certification

information. [Macnaught Intrinsically Safe \(Ex ia\) Sensors](#)

MX25P-2TN

MX PORT SIZE / FLOW		
06	1/4"	.13 - 26 GPH
09	1/4"	4 - 262 GPH
12	1/2"	.5 - 12 GPM
19	3/4"	.8 - 21 GPM
25	1"	1.6 - 42 GPM
40	1 1/2"	2.6 - 92 GPM
50	2"	4 - 200 GPM
75	3"	5 - 317 GPM
100	4"	31.7 - 317 GPM

ExD MATERIALS OF CONSTRUCTION CATEGORY (METER/ROTOR/SEAL)	
"P"	SS/SS/FEP MX06-MX50
"S"	AL/SS/FEP MX06-MX100*

PORT CONNECTION	
1	G
2	NPT
3	ANSI 150
4	JIS 10K
5	DIN PN16

ROTOR	
T	Stainless Steel - "P" MOC
S	Stainless Steel - "S" MOC

OUTPUT	
N	Intrinsically Safe (NAMUR) NPN

MX25P-2TN = 1" NPT SS Body/SS Rotors/ FEP/Ex ia
* MX40-MX100S are AL/AL/FEP



Macnaught USA Inc
614 S Ware Blvd
Tampa, FL 33619
(813) 628-5506

macnaughtusa.com