

EXPLOSION PROOF/FLAME PROOF (Ex D) 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 D flame proof approved sensors for hazardous areas.

Specifications

Our **MX-SERIES** flow meters with Ex D 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.
- Supply voltage: 5-27Vdc @ ≤ 15mA.
- Output voltage: 0-Vs NPN (25mA max. sinking current). Reverse polarity protected. 22
- AWG lead wires: 3 meter length. 1/2" FNPT or M20x1.5 conduit thread.
- Accuracy of ±0.5% of reading, and ±0.03% repeatability.

Certifications

- ATEX & IECEx:
 - II 2 G Ex db IIC T6...T3 Gb
 - FM16ATEX0086X & IECEx FMG 16.0035X
 - T3 @ -55°C ≤ Tamb ≤ +140°C
 - T4 @ -55°C ≤ Tamb ≤ +112°C
 - T5 @ -55°C ≤ Tamb ≤ +77°C
 - T6 @ -55°C ≤ Tamb ≤ +62°C
- CE:
 - Compliance with EN55011, EN50082-2
- USA & Canada:
 - Class 1, Division 1
 - GROUP ABCD T6...T3
 - Class 1, Zone 1, AEx/Ex dbIIC T6...T3 Gb
 - FM16US0288X & FM16CA0147X
 - T3 @ -50°C ≤ Tamb ≤ +140°C
 - T4 @ -50°C ≤ Tamb ≤ +112°C
 - T5 @ -50°C ≤ Tamb ≤ +77°C
 - T6 @ -50°C ≤ Tamb ≤ +62°C



Refer to certificates for appropriate certification information.

Macnaught | Explosion Proof/Flame Proof (Ex D) Sensors

MX25P-2TC

MX PORT SIZE / FLOW		
06	1/4"	.13 - 26 GPH
09	1/4"	4 - 132 GPH
12	1/2"	.5 - 8 GPM
19	3/4"	.8 - 21 GPM
25	1"	1.6 - 32 GPM
40	1 1/2"	2.6 - 66 GPM
50	2"	4 - 200 GPM
75	3"	5 - 194 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	
C	Explosion Proof /Flameproof NPN

MX25P-2TC = 1" NPT SS Body/SS Rotors/ FEP/ExD
* MX40-MX100S are AL/AL/FEP



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