

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 $\pm 0.5\%$ of reading, and $\pm 0.03\%$ repeatability.

Certifications

ATEX & IECEx:

II 2 G Ex db IIC T6...T3 Gb FM16ATEX0086X & IECEx FMG 16.0035X

T3 @ -55° C \leq Tamb $\leq +140^{\circ}$ C

T4 @ -55° C \leq Tamb $\leq +112^{\circ}$ C

T5 @ -55°C \leq Tamb $\leq +77$ °C

T6 @ -55° C \leq Tamb $\leq +62^{\circ}$ C



Compliance with EN55011, EN50082-2

USA & Canada:

Class 1, Division 1 **GROUP ABCD T6...T3** 1725

Class 1, Zone 1, AEx/Ex dbIIC T6...T3 Gb FM16US0288X & FM16CA0147X

T3 @ -50° C \leq Tamb $\leq +140^{\circ}$ C

T4 @ -50°C \leq Tamb $\leq +112$ °C

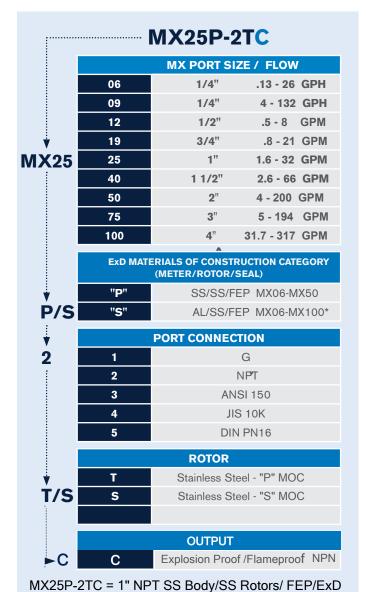
APPROVED

T5 @ -50°C \leq Tamb $\leq +77$ °C

T6 @ -50°C \leq Tamb $\leq +62$ °C

Refer to certificates for appropriate certification information.

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







MX40-MX100S are AL/AL/FEP

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