



Certificate of Compliance

Certificate: 80156531

Master Contract: 302530

Project: 80156531

Date Issued: 2024-09-29

Issued To: MICRO SENSOR CO., LTD.
No.18 Yingda Road, Weibin District,
Baoji City, Shaanxi Province,
China

Attention: Junqiao Yang

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by: Hongliang Cui
Hongliang Cui

PRODUCTS

2258 04 - PROCESS CONTROL EQUIPMENT Intrinsically Safe, Entity - For Hazardous Locations
2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations -
Certified to US Standards

Class I, Division 1, Groups A, B, C and D T4

Ex ia IIC T4 Ga

Class I, Zone 0, AEx ia IIC T4 Ga

Intrinsically Safe Smart Pressure Transmitter. Models MDM7000 Series. $-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$. Maximum process temperature 70°C . Intrinsically Safe when installed per drawing MS4.820.487-1.

The entity parameters are as follows:

Terminals +, -:	
Entity Parameters	Ui: 30VDC, Ii: 100mA, Pi: 0.7W, Ci: 0 μ F, Li: 14.52 μ H



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Model configuration code as follows:

MDM7000-aaa-1 2 3 4 5 6 7 8

Configurator code	Description
aaa -	DP: Differential pressure DGP: Double clamp seals-Gauge pressure DAP: Double clamp seals-Absolute pressure
1 -	Output signal H: 4mA~20mA, HART
2 -	Case S: Stainless steel, M20×1.5 U: Stainless steel, 1/2NPT P: Aluminium alloy, M20×1.5 N: Aluminium alloy, 1/2NPT
3 -	Display N: Without display R: Low temperature display
4 -	range
5 -	Wetted parts material
6 -	Process connection
7 -	Filling oil
8 -	Clamp flange fastener

MDM7000-aa-1 2 3 4 5 6 7 8 9

Configurator code	Description
aa -	GP: Gauge pressure AP: Absolute pressure
1 -	Flange type
2 -	Output signal H: 4mA~20mA, HART
3 -	Case S: Stainless steel, M20×1.5 U: Stainless steel, 1/2NPT P: Aluminium alloy, M20×1.5 N: Aluminium alloy, 1/2NPT
4 -	Display N: Without display R: Low temperature display
5 -	Range
6 -	Sensor structure
7 -	Wetted parts material



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⑧ -	Process connection
⑨ -	Filling oil

MDM7000-aa-①②③④⑤⑥⑦⑧⑨⑩

Configurator code	Description
aa -	LT: Single flange LP: Double flange
① -	Output signal H: 4mA~20mA, HART
② -	Case S: Stainless steel, M20×1.5 U: Stainless steel, 1/2NPT P: Aluminium alloy, M20×1.5 N: Aluminium alloy, 1/2NPT
③ -	Display N: Without display R: Low temperature display
④ -	Range
⑤ -	Wetted parts material
⑥ -	Clamp flange process connection
⑦ -	Filling oil
⑧ -	Clamp flange fastener
⑨ -	Diaphragm system
⑩ -	LT: Single flange LP: Double flange

Conditions of Acceptability:

1. The enclosure of some models may be manufactured from aluminium alloy and used at the accessible surface of the equipment. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered when the equipment is being installed in Zone 0 locations for group II level of protection Ga.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 60079-0:19

CAN/CSA C22.2 No. 60079-11:14
(R2023)

CAN/CSA C22.2 No. 61010-1-12,
UPD1:2015, UPD2:2016, AMD1:2018

ANSI/UL 60079-0-2020 Seventh Edition

Explosive atmospheres - Part 0: Equipment - General requirements

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i”

Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements

Explosive atmospheres - Part 0: Equipment - General Requirements



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ANSI/UL 60079-11-2018 (R2023)
Sixth Edition
ANSI/UL 913-2022 Eighth Edition

UL 61010-1, 3rd Edition (2012), AMD1:
2018

Explosive atmospheres - Part 11: Equipment protection by
intrinsic safety "i"
Intrinsically Safe Apparatus and Associated Apparatus for
Use in Class I, II, III, Division 1, Hazardous (Classified)
Locations
Safety requirements for electrical equipment for
measurement, control, and laboratory use - Part 1: General
requirements

Notes:

Products certified under Class C225804, C225884 have been certified under CSA's
ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80156531	2024-09-29	Original cCSAus Certification of MDM7000 series Smart Pressure Transmitter for Class I, Division 1, Groups A, B, C, D T4; Class 1, Zone 0, AEx ia IIC T4 Ga; Ex ia IIC T4 Ga locations.