



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA24376M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society's Rules.

This certificate is issued to

Manufacturer:	MICRO SENSOR CO.,LTD
Place of Manufacturing:	7 Biyuan 2nd Road, Xi'an 710118, Shaanxi, P.R.China
Product description:	Pressure Transmitters
Model:	MDM7000
Approval No.:	24A016
Valid until:	11 July 2029

The details are described in the attached sheet(s).

Issued at Tokyo on 12 July 2024.

for S. Oishi
General Manager
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

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Attached sheet -1/2 to the Certificate No. TA24376M

Specification & documents:

1. Particulars:

Accuracy	DGP/GP : $\pm 0.075\%$, $\pm 0.1\%$, $\pm 0.2\%$ DAP/AP/GP-T/AP-T : $\pm 0.1\%$, $\pm 0.2\%$ DP : $\pm 0.05\%$, $\pm 0.075\%$ LP/LT : $\pm 0.2\%$
Range of Measurement	DP : 6kPa~3MPa GP : 40kPa~40MPa AP : 40kPa~10MPa DGP : 6kPa~40MPa DAP : 40kPa~10MPa GP-T : 40kPa~10MPa AP-T : 40kPa~1MPa LT/LP : 40kPa~250kPa
Degree of Protection	IP67
Power of Supply	24V DC

2. Components and reference drawings:

- ANNEX1 Product Technical Specifications
- ANNEX2 Drawings
- ANNEX3 Operation Manual

3. Documentation and Test Reports:

- Test report (No. S088A-2024)
- Test report - EMC Test (No. S088A-DC-2024)

- To be continued -

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Attached sheet -2/2 to the Certificate No. TA24376M

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS (IACS UR E10 Rev.8 basis)		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration ±0.7g × 1.5 hours)		X
Inclination test		--
Cold test (Temperature -25°C × 16 hours)		X
Salt mist test		X
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		--

2. Approval condition:

- 1) The product is to be placed inside the metal cabinet.

- The End -