



NIPPON KAIJI KYOKAI

COPY

## TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA21093M

**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 and  
Place of Manufacturing:

**Danfoss A/S**  
**Nordborgvej 81, Dk-6430 Nordborg, Denmark**  
**Danfoss (Tianjin) Ltd,**  
**No 9 Quanhui Road , Wuqing Development Area**  
**301700 Tianjin China**

Product description:

**Pressure Transmitter**

Model:

**DST P40M**

Approval No.:

**21A003**

Valid until:

**14 March 2026**

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 15 March 2021.



T. Shimada  
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. TA21093M

## **Specification & documents:**

### 1. Particulars:

Supply voltage range : 9-32 VDC  
Output type : 4-20 mA  
Pressure range (bar) : 0-4 / 0-6 / 0-10 / 0-16 / 0-25 / 0-100

### 2. Components and reference drawings:

Data sheet : AI354625841155en-000101  
Installation guide : AN35963128120001-000501  
Analysis and plotting spreadsheet for parametric tests performed in pressure lab

### 3. Documentation and Test Reports:

Accredited Marine type tests DST P40M (TR078G0047)  
including  
FORCE Technology Test Report (120-34164 Rev.1)  
Phoenix TESTLAB Test Report (E201738E1)  
Phoenix TESTLAB Test Report (E201738E2)

**- To be continued -**

**Test items & approval conditions:**

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS (IACS UR E10 rev.7 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 (Temperature 55°C, Humidity 95%, 2 cycles)		X
Vibration test (Acceleration ±4.0g × 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 (Ta : 15 sec × 5 times)		X

2. Approval condition:

Nil