NIPPON KAIJI KYOKAI

COPY

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA25021M

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:	**Kongsberg Maritime AS**
Place of Manufacturing:	**Skonnertveien 1, NO-7005 Trondheim, Norway**
Product description:	**Pressure Transmitter**
Model:	**GT402 / 403 / 404 / 406**
Approval No.:	**02A027**
Valid until:	**29 September 2029**

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

Issued at Tokyo on 14 January 2025.

for S. Oishi
General Manager
Machinery Department

Note: This certificate has been issued due to addition and delete of some models.
The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

Specification & documents:

1. Particulars:

Model	402	403	404	406
Measuring range	0.25 - 400 bar	0.6 - 40 bar	0.6 - 40 bar	0.5 - 50 bar
Output signal	4 to 20 mA with HART			4 to 20 mA
Power supply	DC 24 V (12 to 32 V)			
Operating temp.	-45 ℃ to +85 ℃			

2. Construction: Intrinsically Safe Type (Ex ia ⅡC T5 Ga)

Model	GT402 / 403 / 404 / 406
Max. input voltage, $V_{max.}$	28 V
Max. input current, $I_{max.}$	150 mA
Max. input power, $P_{max.}$	0.85 W
Internal capacitance, $C_{int.}$	30 nF
Internal inductance, $L_{int.}$	negligible

(Safety condition)
The transmitter may only be connected to safety barriers with linear resistive current limitation (characteristic), with output values corresponding to the input values stated under Safety Data of the above.

3. Component (Type) and reference drawing:
GT402 : P-GT402/CE Rev.U
GT403 : P-GT403/CE Rev.R
GT404 : P-GT404/CE Rev.O
GT406 : P-GT406/CE Rev.C

4. Test report:
DNV Technical Report (Doc No. 2002-3224 Revision No.01, 2002-05-16)
DNV Technical Report (Doc No. 2006-3295 Revision No.01, 2006-06-08)
Nemko Test Report (Doc No. E15309.01, 2016-03-03)
Nemko Test Report (Doc No. E16195.02, 2017-03-28)
Nemko Test Report (Doc No. E17118.01, 2024-10-04)
Nemko Declaration of GAP analysis CISPR 16-2-1 (2024-12-18)
Nemko Declaration of GAP analysis CISPR 16-2-3 (2024-12-18)

- To be continued -

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS (IACS UR E10 Rev.9 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 85℃×16 hours)		X
Damp heat test		X
Vibration test (Acceleration ±0.7g×1.5 hours)		X
Inclination test		--
Cold test (Temperature -45℃×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:

Nil

- The End -