



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA19220M

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:	Trafag AG
Place of Manufacturing:	Industriestrasse 11, CH8608 Bubikon, Switzerland
Product description:	Pressure Switch 9B4
Model:	Picostat PST4B

Approval No.:	09A006
Valid until:	16 March 2024

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

Issued at Tokyo on 17 March 2019.



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.TA19220M

Specification & documents:

1. Particulars:

Power supply: 250VAC/6A for type 42
220VDC/0.25A, 110VDC/0.5A, 60VDC/1A, 24VDC/3A, 12VDC/6A for type 42
5-30VAC/DC 5mA-0.1A for type 84

Operating Range: -0.6 to 4-40 bar for Picostat PST4B

2. Components and reference drawings:

Type	Drawing
PST4B-42	Spec. sheet File: H72367q, C11491f, C20784q, C31215b, M93657f
PST4B-84	

3. Documentation and Test Reports:

- Trafag test report No.V-08125
- ENL IP test report No.20081211.A02.01 (14 Oct. 2008)
- Trafag test report No.V-11140
- TEA AG test report No.UB14083 (18 Mar. 2019)
- Trafag test report No.V-18067

- To be continued -

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		--
Power supply fluctuation test	Electric	--
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		X
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration ±4.0g × 1.5 hours)		X
Inclination test		X
Cold test (Temperature -25°C × 2 hours)		X
Salt mist test		--
Electrostatic discharge immunity test		--
Radiated radio frequency immunity test		--
Conducted low frequency immunity test		--
Conducted high frequency immunity test		--
Burst / Fast transient immunity test		--
Surge immunity test		--
Radiated emission test		--
Conducted emission test		--
Flame retardant test		--

2. Approval condition:

The product is not allowed to be installed on open deck and/or hazardous area.

- The End -