



NIPPON KAIJI KYOKAI

**TYPE APPROVAL CERTIFICATE  
FOR AUTOMATIC DEVICES AND EQUIPMENT**

Certificate No. TA18030M

**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

Applicant:	<b>Trafag AG</b>
Manufacturer:	<b>Trafag spol. s.r.o.</b>
Place of Manufacturing:	<b>Vilemovska 2129, 34701 Tachov, Czech Republic</b>
Product description:	<b>Thermostat</b>
Model:	<b>Picotherm M 474</b>
Approval No.:	<b>07A005</b>
Valid until:	<b>5 February 2023</b>

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

Issued at Tokyo on 16 January 2018.

  
F. Taguchi  
General Manager  
Machinery Department

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

## NIPPON KAIJI KYOKAI

Attached sheet -1/2 to the Certificate No. TA18030M

### Specification & documents:

#### 1. Particulars:

Contact rating: 250VAC, 3(1)A for silver contact  
250VDC, 0.3(0.2)A for silver contact

Measuring range : 5-95, ~~20-110~~, 20-150°C

#### 2. Components and reference drawings:

Sensor	Type	Documents
Thermostat	Picotherm 474	Data sheet 1.1.1.14, (H72113m & H72113m spec) H73113i, R93261-c, R93262-c

#### 3. Documentation and Test Reports:

Picotherm2 xls. (13-9-2001)  
V-221 (1-9-2003)  
V-0314 (1-9-2003)  
Additional vibration test (4-4-2002)  
Additional dry heat test (11-1-2018)

- 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)		--
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration ±4g × 2 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 products are not allowed to be installed on open decks.