



## *Confirmation of Product Type Approval*

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 15/OCT/2017. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 07/OCT/2019 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

**Product Name:** Temperature Switch  
**Model Name(s):** Picotherm M, Series 474

**Presented to:**  
TRAFAG AG  
INDUSTRIESTRASSE 11  
CH-8608 BUBIKON  
Switzerland

<b>Intended Service:</b>	Control, alarm and monitoring functions for all marine applications on AMS, ACC, ACCU ABCU classed vessels.
<b>Description:</b>	Bellow type temperature switch with fixed switching differential. Housing made of material AlMgSi1. Microswitch with silver or gold plated contacts. Electrical socket/plug connection acc. to DIN 43650. Process connection G1/2". Sensor length: K type max. 150 mm (sensor and protective tube), B type max. 3000 mm (sensor and capillary tube).
<b>Tier:</b>	3
<b>Ratings:</b>	Temperature ranges (°C): 5 to 95, 20 to 110, 20 to 150. Accuracy: $\pm 4\%$ FS. Repeatability: $\pm 1\%$ FS. Output contact ratings: 250V AC, 3(1)A or 220V DC, 0.3(0.2)A for silver plated contacts. Ambient temperature: -30°C to 70°C. Degree of protection: IP65.
<b>Service Restrictions:</b>	Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
<b>Comments:</b>	Duplicate PDA exists with Trafag spol. s.r.o. Tachov/ CZ. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
<b>Notes / Documentation:</b>	Catalogue Data Sheet H72113i. This Product Design Assessment (PDA) is valid

only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

**Term of Validity:**

This Product Design Assessment (PDA) Certificate 14-GD1236489-PDA, dated 08/Oct/2014 remains valid until 07/Oct/2019 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

**ABS Rules:**

ABS Steel Vessels Rules (2014) 1-1-4/7.7, 1-1-A 3 & 4, 4-8-3/1.7/ 1.11/ 1.17. 4-9-8/13, ABS Rules for Building and Classing Offshore Support Vessels (2014) 1-1-4/7.7, 1-1-A 3 and 4, 4-8-3/1.7/ 1.11/ 1.17, 4-9-8/13, ABS Rules for Building and Classing Steel Vessels Under 90 Meters (295 Feet) in Length (2014) 1-1-A 3 and 4, 4-6-4/11/15/17, 4-7-4/3.9, ABS Rules for Building and Classing Mobile Offshore Drilling Units (2014) 1-1-4/9.7, 1-1-A 2 and 3, 4-1-1/7.7, 4-3-3/3.1. ABS Rules for Building and Classing Facilities on Offshore Installations (2014) 1-1-4/9.7, 1-1-A 2 and 3, Steel Barge Rules (2014) 1-1-A 3 and 4, 4-1-3/1.

- National Standards:**
- International Standards:**
- Government Authority:**
- EUMED:**
- Others:**

<b>Model Certificate</b>	<b>Model Certificate No</b>	<b>Issue Date</b>	<b>Expiry Date</b>
PDA	14-GD1236489-PDA	08/OCT/2014	07/OCT/2019



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.