



## Confirmation of Product Type Approval

**Company Name:** TRAFAG AG

**Address:** INDUSTRIESTRASSE 11 Switzerland

**Product:** Temperature Switch

**Model(s):** Picotherm M, Series 474

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	19-GD1914139-PDA	04-NOV-2019	03-NOV-2024
Manufacturing Assessment (MA)	18-MF3454317	14-FEB-2018	13-FEB-2023
Product Quality Assurance (PQA)	NA	NA	NA

### **Tier**

3

### **Intended Service**

Temperature switch for control, alarm and monitoring functions on AMS, ACC, ACCU ABCU classed vessels and offshore facilities.

### **Description**

Bellow type temperature switch with fixed switching differential. Housing made of material AlMgSi1. Microswitch with silver or gold plated contacts.

Electical 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).

### **Ratings**

Temperature ranges (°C): +5... +95, +20... +110, +20... +150

Accuracy: ±4% FS. Repeatability: ±1% FS.

Output contact ratings for resistive (inductive load): 250V AC, 3(1)A, 220V DC, 0.25 (0.2)A, 24V DC 2.0(1.0) for silver plated contacts.

Ambient temperature: -30°C to 70°C.

Degree of protection: IP65.

### **Service Restrictions**

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.

**Comments**

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Application and use are to be in accordance with the manufacturer's instructions.

**Notes, Drawings and Documentation**

Drawing No. H72113n, Picotherm 474 Datasheet, Revision: -,

Drawing No. Trafag Test Report No. V-18093, dated 26.11.2018

Drawing No. DOW\_Syltherm800, Product technical data, Revision: -,

Drawing No. MSDS Syltherm800, Safety Datasheet, Revision: -,

**Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 03/Nov/2024 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

**ABS Rules**

2019 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/1.7, 4-8-3/1.11, 4-8-3/ 1.17, 4-8-3/Table 1, 4-9-9/Table 1

2019 Mobile Offshore Units Rules 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-3/5.13.1

2019 Facilities on Offshore Installations 1-1-4/9.7, 1-1/A2, 1-1/A3

**International Standards**

NA

**EU-MED Standards**

NA

**National Standards**

NA

**Government Standards**

NA

**Other Standards**

NA



A handwritten signature in blue ink, appearing to read "Joseph W. White".

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 19-Nov-2019 7:15

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 is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. 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.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

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.

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.