

Type Approval Certificate Extension

This is to certify that Certificate No. 05/20027 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Trafag AG Emil-Staub-Strasse 1 CH-8708 Männedorf Switzerland
PLACE OF PRODUCTION	Trafag spol. s.r.o. Vilemovska 2129 CZ-34701 Tachov Czech Republic
DESCRIPTION	Temperature switch
TYPES	474.03.xx.yyy.zz.vvvv.wwww.tt xx = range (20, 23, 31) yyy = sensor type (322) zz = execution (00 – max. 3000 mm) 14 – max. 150 mm) vvvv= protection tube (8316, 1416) wwww= length protection tube (0150, 0065, 0110) tt = accessories (58, V3)
APPLICATION	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV4 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2002.
Certificate No.	05/20027 (E1)
Issue Date	27 April 2010
Expiry Date	26 April 2015
Sheet	1 of 2


Thorsten Wolff
Hamburg Design Support Centre
Lloyd's Register EMEA

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ADDITIONAL TEST Dry heat (70°C / 2 hrs)
 Low temperature (-25°C / 2 hrs)

RATINGS Manufacturer's specification.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. ETS 22983-10 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 05/20027 to which this extension should be attached.

Certificate No. 05/20027 (E1)
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Marine Design Appraisal Document

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Email: hamburg-design-support@lr.org

Date
27 April 2010

Quote this reference on all future communications
HPC0920539/22983-10/TW/hu

**THE LLOYD'S REGISTER'S TYPE APPROVAL SYSTEM, 2002
ISSUED TO: TRAFAG AG
FOR: TEMPERATURE SWITCH
TYPE APPROVAL CERTIFICATE NO. 05/20027 (E1)**

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register's Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

ADDITIONAL APPROVAL DOCUMENTATION

Form LR6606 Approval Services – Request for Quotation 20.11.2009

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the LR Type Approval System Procedure.

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FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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