

TYPE APPROVAL CERTIFICATE

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No. **24 954 - 05 HH**

Company **Endress + Hauser GmbH + Co. KG**

**Hauptstraße 1
79689 Maulburg, GERMANY**

Product Description **Level limit switch for liquids, high temperature version**

Type **Liquiphant S FTL 70, 71**

Environmental Category **C, EMC1, EMC2**

Technical Data /
Range of Application **Use in tanks, containers and pipelines for liquids, max. or min. detection
Construction: FTL 70 (H) compact**

FTL 71 (H) with extension pipe (max.1600 mm)

FTL 71 C corrosion-resistant coating

FEL 51: level switch, 2-wire AC, 19...253V AC

FEL 52: level switch, 3-wire DC, PNP 10...55 V DC

FEL 54: level switch, 2x c/o-contacts potential-free, 19...253V AC, 19...55V DC

FEL 55: level sensor, 16/8 mA 2-wire, 11...36V DC

FEL 56: level sensor, NAMUR (DIN19234), only with FTL 375 N or FTL 325 N

FEL 58: level sensor, NAMUR (EN50227), only with FTL 375 N or FTL 325 N

**FEL 57: level sensor, PFM signal transmission (150/50Hz),
only with FTL 375 P or FTL 325 P**

FEL 50 A: level sensor, PROFIBUS-PA

Ex-proof-protection: on request (Ex-proof Certificates to be observed)

Software requirement class: 3; Software version: V1.xx

Environmental Category "EMC2" for FEL 51, FEL 54, FEL 55

Test Standard **Guidelines for the Performance of Type Approvals, Chapter 2- Test
Requirements for Electrical / Electronic Equipment and Systems (VI-7-2),
Edition 2003**

Documents **Test Reports: No. 28/02-H1 and No. 562/04 of paconsult;
EMC int/16.11.01/498...504, PTC_E_04_003, -04_04, -_03_058, -_03_063, -
_03_064, -02_009 of E+H;
Data Sheet TI354F/00/en;
Technical Drawings, Circuit Diagrams, Software Documentation;
Ex-proof Certificates: KEMA 99ATEX0523, KEMA 00ATEX2035**

Remarks **This certificate is issued on the basis of GL Guidelines for the Performance of
Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007.**

Valid until **2020-03-03**

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File No. **I.D.03**

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Type Approval Symbol




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