Certificate No: LR2004009TA
Issue Date: 30/05/2020
Expiry Date: 29/05/2025

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer **FINETEK CO., LTD.**

Address No. 16, Tzuchiang St., Tucheng Industrial Park, Tapei Hsien,, Taiwan, 23678, China

Place of Production FINETEK CO LTD

No. 16 Tzuchiang Street, Tucheng Industrial Park, New Taipei City, 23678, Taiwan

Place of Production FINETEK CO LTD

No. 26, Ding'an Road, Su'ao Township, Yilan County, 270, Taiwan

Type Level Indicators

Description By-Pass Level Indicator, Side Mounting Float Switch, Magnetic Float Switch, and Microprocessor based Meter

By-Pass Level Indicator (Metal Housing Only):
EFA1H Series, EFA5M Series, EFB1H/K/L Series, EFB2/3K Series, EFB7H Series, EFC1/8H Series & MEF Mini Series

Side Mounting Float Switch (Metal Housing Only):
FF10/20/40/45/50/55/70/71/73/75/90 Series
FFB-0300 (Test Accessory)

Magnetic Float Level Indicator (Metal Housing Only):
FG*B Series, FG*E Series,
FG*K Series, FG*L Series,

Downloaded Copy

Ke Lin Zhang

Senior Specialist to Lloyd's Register
Classification Society (China) Co Ltd
A member of the Lloyd's Register Group

19th Floor, 550 Yan An dong Road, Shanghai,
Huangpu District, China

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Certificate No: LR2004009TA
Issue Date: 30/05/2020
Expiry Date: 29/05/2025

Type Approval Certificate

FG*N Serie

Trade Name EFA1H Series

Application Marine applications for use in environmental categories ENV5 for By-Pass Level Indicator, Side Mounting Float Switch and Magnetic Float Level Indicator and in environmental categories ENV3 for Microprocessor based Meter in the "General Power Distribution Zones" as defined in LR Type Approval System Test Specification No. 1 2002 where The Test Specification is satisfactory for the intended operation.

Specified Standard Manufacture's specification: -
Maker's General Specifications

Ratings

By-Pass Level Indicator
EFA1H Series, EFA5M Series, EFB1H/K/L Series, EFB2/3K Series, EFB7H Series, EFC1/8H Series & MEF Mini Series
Contact Capacity: 1A, 30W/200Vdc/240Vac
Power Supply: 12-36Vdc
Output Current: Loop power 4-20mA

Side Mounting Float Switch
FF10/FF40DFM/FF50DFM/FF90GLO Series
Contact Capacity: 5A/250Vac
FF20 Series
Contact Capacity: 1A, 30W/200Vdc/220Vac
FF20BHM/FF45DFM/FF55DFM Series
Contact Capacity: 1A, 60W/200Vdc/220Vac
FF70/71/73/75 Series
Contact Capacity: 3A/250Vac

Magnetic Float Level Indicator

Downloaded Copy

19th Floor, 550 Yan An dong Road, Shanghai,
Huangpu District, China

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Type Approval Certificate

FG Series
Power Supply: 12-36Vdc
Output Current: Loop power 4-20mA
Power Supply: 2.5-10Vdc
Output Current: 2-wires, 3-wires 50kOhm/m

Magnetic Float Level Switch
Tube Type OD9.5, 12.7 and 17.2mm of
FDB/E/H/K Series, FD7D/N Series, FH Series, FM Series, F7H Series, F7M Series
Contact Capacity: 50W/250Vac

Microprocessor based Digital Meter
PB/PM Series
Power Supply: 85-265Vac / 18-36Vdc
Input Signal: 20mA, 200mA, 5V, 10V, 20V, 200V

Additional Tests

By-Pass Level Indicator: EF Series & MEF Mini Series, Side Mounting Float Switch: FF Series, Magnetic Float Level Indicator: FG Series, FD Series, FH Series, FM Series, F7H Series& F7M Series:
Enclosure Test: 30 minutes for IP67

Microprocessor Based Meter: PB/PM Series:
Low Temperature Test: 16 hours at -25 ℃
Enclosure Test: 3 minutes for IPX5
(Only front surface)

Other Conditions

Screw fitting type is not used to any flammable oil tanks, and to pipe exceeding 51mm outer diameter when it is intended to use for marine application.

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 Classification Society (China) Co Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR2004009TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Downloaded Copy

19th Floor, 550 Yan An dong Road, Shanghai,
Huangpu District, China

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.