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Certificate No:

Issue Date:

11/03/2020

Expiry Date:

10/03/2025

LR2002260TA

1 of 2

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

IDEC Corporation

Address

2-6-64, Nishimiyahara, Yodogawa-Ku, Osaka, 532-0004, Japan

Place of Production

IDEC CORPORATION Amagasaki Plant

5-8-10 Shioe, Amagasaki-shi, Hyogo, 661-0976, Japan

Place of Production

IDEC IZUMI TAIWAN CORPORATION

No.87, Swi Kuan Road, Chu Hou Village, Jen Wu Country, Kaohsiung, Hsien,

814, Taiwan, R.O.

Place of Production

CANON ELECTRONICS INC. Akagi Plant

2167 Morishita, Showa-mura, Tone-gun, Gunma, 379-1297, Japan

Type

Control Units

Description

LCD Display with touch panel, HG-V Series Operator interface

Trade Name

HG2G-V

Display: 5.7" VGA TFT Color"

Interfaces: Serial x2, Ethernet, USB Host, USB Device, SD

HG3G-V8

Display: 8.4" XGA TFT Color"

Interfaces: Serial x2, Ethernet, USB Host, USB Device, SD, Audio Out, Video IN x2

Toshihiro Shigeno

Innovation / Type Approval Coordinator and Senior Surveyor to Lloyd's Register Group Ltd A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, UK

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Type Approval Certificate

HG3G-VA

Display: 10.4" XGA TFT Color

Interfaces: Serial x2, Ethernet, USB Host, USB Device, SD, Audio Out, Video IN x2

Display: 12.1" XGA TFT Color"

Interfaces: Serial x2, Ethernet, USB Host, USB Device, SD, Audio Out, Video IN x2

HG5G-V

Display: 15.0" XGA TFT Color"

Interfaces: Serial x2, Ethernet, USB Host, USB Device, SD, Audio Out, Video IN x2

Application

Marine and offshore applications for use in environmental categories ENV1, ENV2 and ENV3 in the "General Power Distribution Zones" as defined in LR Type Approval System Test Specification No. 1-2019 where the Test Specification is satisfactory for the intended operation.

Ratings

HG2G-V: 24VDC/18W HG3G-V8: 24VDC/22W HG3G-VA: 24VDC/25W HG4G-V: 24VDC/25W HG5G-V: 24VDC/27W

Additional Tests

IACS Unified Requirement E10 (Rev.7)

Other Conditions

- The certificate attests to the hardware's suitability for the environmental categories stated.
- Suitability of the software and system configuration is subject to a separate plan appraisal according to the Lloyd's Register Rules and Regulations when placed on Lloyd's Register classed vessels.

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 Group Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR2002260TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Reference:

YTS/T/TSY/196513(E20-01)

LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2019

Issue by: Yokohama Technical Support Office
Issued to: IDEC CORPORATION
For: LCD Display with touch panel, HG-V Series Operator interface

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System 2019 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

<u>Title</u>
Request for Marine Services – Type Approval
Application Checklist – Appendix to Form 2502TA/2502TA MR
Operator Interface, HG Series
Test Specifications

Document Ref. Da

<u>Date</u>

2502TA

11-Sep-2019 11-Sep-2019

EP1708-3

August 2019

19-R&D-0919 Rev.2

November. 20. 2019

TEST REPORTS

<u>Title</u>	Document Ref.	<u>Date</u>
TEST REPORT for Lloyd's Register	19-306-073	January 22,2020
Test report	RR304-E19063	' 19/12/18
TEST REPORT	KL80190466	December 24, 2019
TEST REPORT	KL80190517	December 24, 2019

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Innovation/Type Approval Coordinator and
Senior Surveyor to Lloyd's Register Group Ltd
Supplementary Type Approval Terms and Conditions

COPY COLEMBER

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 Lloyd's Register Type Approval System Procedure.

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