



CERTIFICATE NUMBER

10-LD635026-1-PDA

DATE

27 September 2010

ABS TECHNICAL OFFICE

London Engineering Services

# CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of  
**DIGITAL ELECTRONICS CORPORATION - OSAKA**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Monitor, Graphic Panels

MODEL: Pro-Face GP4100 Series

ABS RULE: 2010 Steel Vessel Rules 1-1-4/7.7, 4-9-6/7.5.1, 4-9-7

OTHER STANDARD IACS UR E10 Rev5:2006;

AMERICAN BUREAU OF SHIPPING

  
Wing F. Cheung  
Engineering Type Approval Co-ordinator

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

**DIGITAL ELECTRONICS CORPORATION**

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**Product:** Monitor, Graphic Panels

**Model:** Pro-Face GP4100 Series

**Intended Service:**

Human Machine Interface for use as part of alarm, monitoring, automation and similar systems for marine and offshore applications

**Description:**

Compact graphic operator interface, 3.4", 200x80 pixel, STN Monochrome LCD touchscreen display panel with choice of LED backlighting colour. Interfaces: RS-232C (GP4105G1D, GP4105W1D), RS422/RS485 (GP4106G1D, GP4106W1D), RS485 (isolated) (GP4107G1D, GP4107W1D), USB2.0 (TypeA) and USB2.0 (mini-B) (all models).

**Ratings:**

24V DC (19.2 to 28.8V), 6.5W (max), 0C to 50C operating temperature, IP65 (front face of unit when installed in a solid panel)

**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:**

Tests and approval are for the hardware only. Each configuration and external connection is to be specifically approved.

For installation refer to the certification note 10DD-4GD00017.

**Notes / Drawings / Documentation:**

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

**Term of Validity:**

This Product Design Assessment (PDA) Certificate 10-LD635026-1-PDA, dated 27/Sep/2010 remains valid until 26/Sep/2015 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

**STANDARDS**

**ABS Rules:**

2010 Steel Vessel Rules 1-1-4/7.7, 4-9-6/7.5.1, 4-9-7

**National:**

NA

**International:**



**DIGITAL ELECTRONICS CORPORATION**

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NA

**International:**

IACS UR E10 Rev5:2006

**Government Authority:**

NA

**EUMED:**

NA

**Others:**

NA

