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.

PRODUCT: **Monitor, Graphic Panels**

MODEL: **ST/AGP Series**

This Product Design Assessment (PDA) Certificate 12-YO872078-PDA, dated 07/May/2012 remains valid until 07/May/2017 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.

AMERICAN BUREAU OF SHIPPING

Yukiteru Naguchi

Engineer

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PRODUCT:
Monitor, Graphic Panels

MODEL:
ST/AGP Series

Intended Service:
Graphic Panels for Monitoring and control systems in marine and industry applications.

Description:
See the attached list of products.

Ratings:
DC 24V

Service Restriction:
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:
Each particular application is to be specifically approved.

Notes / Drawings / Documentation:
Refer to the attachment for test reports this PDA is base on.
The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Term of Validity:
This Product Design Assessment (PDA) Certificate 12-YO872078-PDA, dated 07/May/2012 remains valid until 07/May/2017 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.

DIGITAL ELECTRONICS CORPORATION
STANDARDS

ABS Rules:
2012 Steel Vessel Rules 1-1-4/7.7, 1-1-Appendix 3 and 4-9-7/13

National:
NA

International:
IACS E10, IEC 61131-2

Government Authority:
NA

EUMED:
NA

Others:
NA

Product Design Assessment (PDA) Certificate Attachment for Component Details

PDA Certificate No:	12-YO872078-PDA
Entry Date:	7 May 2012
Expire Date:	7 May 2017
Company:	Digital Electronics Corporation
Factory or Works:	Head Office
Product/Equipment:	Monitor, Graphic Panels
Model:	ST/AGP Series

DESCRIPTION:

Model No.	Product Description
ST401-AG41-24V	Display 3"8 QVGA, 6 function keys, 1 color backlight (Amber) and one serial line RS232C port.
ST403-AG41-24V	Display 3"8 QVGA, 6 function keys, 2 colors backlight (Amber & Red), one serial line RS232C/422 port and one Ethernet 10BaseT port.
AGP3300-T1-D24	Display 5"7 QVGA, TFT screen 65536 colors, two serial lines RS232C/422/485-Sub D9 port and RS422/485-Sub D9 port, one USB port, one Compact Flash slot, one Ethernet 10/100BaseT port.
AGP3400-T1-D24	Display 7"5 VGA, TFT screen 65536 colors, two serial lines RS232C/422/485-Sub D9 port and RS422/485-Sub D9 port, one USB port, one Compact Flash slot, one auxiliary interface and Ethernet 10/100BaseT port.
AGP3450-T1-D24	Display 7"5 VGA, TFT screen 65536 colors, two serial lines RS232C/422/485-Sub D9 port and RS422/485- Sub D9 port, one USB port, one Compact Flash slot, one auxiliary interface and Ethernet 10/100BaseT port, one Camera and microphone input.
AGP3500-T1-D24	Display 10"4 VGA, TFT screen 65536 colors, two serial lines RS232C/422/485-Sub D9 port and RS422/485-Sub D9 port, two USB ports, one Compact Flash slot, one auxiliary interface and Ethernet 10/100BaseT port.
AGP3550-T1-D24	Display 10"4 VGA, TFT screen 65536 colors, two serial lines RS232/422/485-Sub D9 port and RS422/485- Sub D9 port, two USB ports, one Compact Flash slot, one auxiliary interface and Ethernet 10/100BaseT port, one Camera and microphone input.
AGP3600-T1-D24	Display 12"1 SVGA, TFT screen 65536 colors, two serial lines RS232/422/485-Sub D9 port and RS422/485- Sub D9 port, two USB ports, one Compact Flash slot, one auxiliary interface and Ethernet 10/100BaseT port.
AGP3650-T1-D24	Display 12"1 SVGA, TFT screen 65536 colors, two serial lines RS232/422/485-Sub D9 port and RS422/485- Sub D9 port , two USB ports, one Compact Flash slot, one auxiliary interface and Ethernet 10/100BaseT port , one Camera and microphone input.
AGP3750-T1-D24	Display 15" XGA, TFT screen 65536 colors, two serial lines RS232/422/485-Sub D9 port and RS422/485- Sub D9 port, two USB ports, one Compact Flash slot, one auxiliary interface and Ethernet 10/100BaseT port, one Camera and microphone input.

DOCUMENTATION:

Refer to MODEL REFERENCE.
(Note that MODEL REFERNCE is not open to public on the website.)