

**ABS**

CERTIFICATE NUMBER

07-LD213310/2-DUP/2

DATE

23 November 2007

ABS TECHNICAL OFFICE

London Engineering Department

# CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of  
**Digital Electronics Corporation**

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).

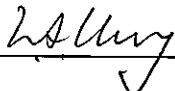
PRODUCT: Graphic Panels

MODEL: ST/AGP Series

ABS RULE: 2007 Steel Vessel Rules 1-1-4/7.7, 4-9-7/13

OTHER STANDARD: IACS E10, IEC 61131-2;

AMERICAN BUREAU OF SHIPPING

  
Wing F. Cheung

Engineering Type Approval Co-ordinator

**Digital Electronics Corporation**

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Suminoe-Ku  
OSAKA  
559-0031  
Japan  
Telephone: +81 6 66 13 11 01  
Fax: +81 6 66 13 58 88

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**Product:** Graphic Panels

**Model:** ST/AGP Series

**Intended Service:**

Monitoring and control systems in marine and industry applications.

**Description:**

See the attached list of products.

**Ratings:**

24V DC

**Service Restrictions:**

Unit Certification is not required for this product.

**Comments:**

Not Applicable

**Notes/Documentation:**

Test Reports; 2006-0412-00/01/02/03/04/05, 2006 0134-05/06/07/08, 200604-3056C-R1-E, 200604-3056C-R2-E, 200604-3056C-R3-E, 200604-3056C-R4-E, IACS\_ANG\_N20060134-01A, IACS\_ANG\_N20060134-02A, IACS\_ANG\_N20060134-03A, IACS\_ANG\_N20060134-04A, R0510281C1-E, R0510281C2-E 1130; 35011361\_P07\_000-02, ISO9001 Wuxi, ISO9001-Sophia 2004

**Term of Validity:**

This Design Assessment Certificate number 07-LD213310/2-DUP/2, dated 23/Nov/2007 will expire on 22/Nov/2012 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2008, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

**STANDARDS**

**ABS Rules:**

2007 Steel Vessel Rules 1-1-4/7.7, 4-9-7/13

**International:**

IACS E10, IEC 61131-2



Digital Electronics Corporation  
8-2-52 Nankohigashi, Suminoe-Ku, Osaka  
559-0031  
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ST and AGP series Touch Sensitive Graphic Panels comprise onboard memory, serial and Ethernet ports to connect different peripherals unique to each model as illustrated below.

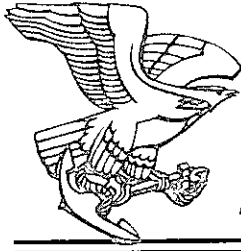
Model No.	Product Description
ST401-AG41-24V	Display 3"8 QVGA, 6 function keys, 1 color backlight (Amber) and one serial line RS232C port.
ST403-AG41-24V	Display 3"8 QVGA, 6 function keys, 2 colors backlight (Amber & Red), one serial line S232C/422 port and one Ethernet 10BaseT port.
AGP3300-T1-D24	Display 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 10/100 Base T 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 one Ethernet 10/100BaseT port.
AGP3450-T1-D24	Display 7"5VGA, TFT screen 65536 colors, two serial lines RS232C/422/485-SubD9 port and RS422/485 Sub D9 port, one USB port, one Compact Flash slot, one auxiliary interface and one Ethernet 10/100Base T port, one Camera and microphone input.
AGP3500-T1-D24	Display 10"4 VGA, TFT screen 65536 colors, two serial lines RS232/422/485-SubD9 port and RS422/485 Sub D9 port, one USB port, one Compact Flash slot, one auxiliary interface and one Ethernet 10/100BaseT port.
AGP3550-T1-D24	Display 10"4 VGA, TFT screen 65536 colors, two serial lines RS232/422/485-SubD9 port and RS422/485 Sub D9 port, one USB port, one Compact Flash slot, one auxiliary interface and one Ethernet 10/100 Base T port, one Camera and microphone input.
AGP3600-T1-D24	Display 12"1 SVGA, TFT screen 65536 colors, two serial lines RS232/422/485-SubD9 port and RS422/485 Sub D9 port, one USB port, one Compact Flash slot, one auxiliary interface and one Ethernet 10/100BaseT port.
AGP3650-T1-D24	Display 12"1 SVGA, TFT screen 65536 colors, two serial lines RS232/422/485-SubD9 port and RS422/485 Sub D9 port, one USB port, one Compact Flash slot, one auxiliary interface and one 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-SubD9 port and RS422/485 Sub D9 port, one USB port, one Compact Flash slot, one auxiliary interface and one Ethernet 10/100BaseT port, one Camera and microphone input.

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List of components



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# ABS

CERTIFICATE NUMBER

07-LD213310/1-DUP/3

DATE

23 November 2007

ABS TECHNICAL OFFICE

London Engineering Department

## CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of

### **Wuxi Pro Face Electronics Co Ltd**

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).

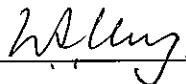
PRODUCT: Graphic Panels

MODEL: ST/AGP Series

ABS RULE: 2007 Steel Vessel Rules 1-1-4/7.7, 4-9-7/13

OTHER STANDARD: IACS E10, IEC 61131-2;

AMERICAN BUREAU OF SHIPPING

  
Wing F. Cheung

Engineering Type Approval Co-ordinator

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**Product:**           **Graphic Panels**

**Model:**           **ST/AGP Series**

**Intended Service:**

Monitoring and control systems in marine and industry applications.

**Description:**

See the attached list of products.

**Ratings:**

24V DC

**Service Restrictions:**

Unit Certification is not required for this product.

**Comments:**

Not Applicable

**Notes/Documentation:**

Test Reports; 2006-0412-00/01/02/03/04/05, 2006 0134-05/06/07/08, 200604-3056C-R1-E, 200604-3056C-R2-E, 200604-3056C-R3-E, 200604-3056C-R4-E, IACS\_ANG\_N20060134-01A, IACS\_ANG\_N20060134-02A, IACS\_ANG\_N20060134-03A, IACS\_ANG\_N20060134-04A, R0510281C1-E, R0510281C2-E 1130;

35011361\_P07\_000-02, ISO9001 Wuxi, ISO9001 Sophia 2004

**Term of Validity:**

This Design Assessment Certificate number 07-LD213310/1-DUP/3, dated 23/Nov/2007 will expire on 22/Nov/2012 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2008, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

**STANDARDS**

**ABS Rules:**

2007 Steel Vessel Rules 1-1-4/7.7, 4-9-7/13

**International:**

IACS E10, IEC 61131-2



*MFC*

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ST and AGP series Touch Sensitive Graphic Panels comprise onboard memory, serial and Ethernet ports to connect different peripherals unique to each model as illustrated below.

<b>Model No.</b>	<b>Product Description</b>
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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 10/100Base T 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 one Ethernet 10/100BaseT port.
AGP3450-T1-D24	Display 7"5VGA, TFT screen 65536 colors, two serial lines RS232C/422/485-SubD9 port and RS422/485 Sub D9 port, one USB port, one Compact Flash slot, one auxiliary interface and one Ethernet 10/100Base T port, one Camera and microphone input.
AGP3500-T1-D24	Display 10"4 VGA, TFT screen 65536 colors, two serial lines RS232/422/485-SubD9 port and RS422/485 Sub D9 port, one USB port, one Compact Flash slot, one auxiliary interface and one Ethernet 10/100BaseT port.
AGP3550-T1-D24	Display 10"4 VGA, TFT screen 65536 colors, two serial lines RS232/422/485-SubD9 port and RS422/485 Sub D9 port, one USB port, one Compact Flash slot, one auxiliary interface and one Ethernet 10/100 Base T port, one Camera and microphone input.
AGP3600-T1-D24	Display 12"1 SVGA, TFT screen 65536 colors, two serial lines RS232/422/485-SubD9 port and RS422/485 Sub D9 port, one USB port, one Compact Flash slot, one auxiliary interface and one Ethernet 10/100BaseT port.
AGP3650-T1-D24	Display 12"1 SVGA, TFT screen 65536 colors, two serial lines RS232/422/485-SubD9 port and RS422/485 Sub D9 port, one USB port, one Compact Flash slot, one auxiliary interface and one 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-SubD9 port and RS422/485 Sub D9 port, one USB port, one Compact Flash slot, one auxiliary interface and one Ethernet 10/100BaseT port, one Camera and microphone input.

List of components



WFZ