



CERTIFICATE NUMBER  
15-HS1370132-PDA

DATE  
22 Jun 2015

ABS TECHNICAL OFFICE  
Houston SED Machinery - Piping  
& Electrical Sys.

# CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of **GENERAL ELECTRIC COMPANY-DRIVES & CONTROLS INC** 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: **Programmable Control/Monitoring Unit**

Model: **Mark VIe Compact Controls (151X1202YD10SA01, 151X1202YD20SA01C, 151X1202YD30SA01 & 151X1202YD40SA01)**

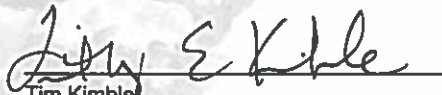
This Product Design Assessment (PDA) Certificate 15-HS1370132-PDA, dated 22/Jun/2015 remains valid until 21/Jun/2020 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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

  
Tim Kimble  
Engineer

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).

**GENERAL ELECTRIC COMPANY-DRIVES & CONTROLS INC**

1501 ROANOKE BLVD RM281

SALEM VA

United States 24153

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Web: ge.com

**Tier: 2 - PDA Issued**

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**Product:** Programmable Control/Monitoring Unit

**Model:** Mark VIe Compact Controls (151X1202YD10SA01, 151X1202YD20SA01C, 151X1202YD30SA01 & 151X1202YD40SA01)

**Intended Service:**

Marine and Offshore Application - skid-mounted I/O Modules for gas turbines for power generation or mechanical drive application (Centrifugal Compressor driven equipment). Not to be used for propulsion.

**Description:**

Compact skid-mounted I/O Modules for gas turbines.

**Mark VIe Compact Controls Components:**

Core Control Box: 151X1202YD10SA01

Safety Control Box: 151X1202YD20SA01C

Staging Valve Box: 151X1202YD30SA01

DLE Valve Box: 151X1202YD40SA01

**Rating:**

Core Control Box: 151X1202YD10SA01:

Voltage: 240 V AC (50-60 Hz), 125 V DC, 240 V AC (Heater In), 240 V AC (Cooler In);

Power: 800 W (VAC/VDC), 400 W (Heater In), 135 W (Cooler In);

Safety Control Box: 151X1202YD20SA01C

Voltage: 240 V AC (50/60 Hz), 125 V DC, 240 V AC (Heater In), 240 V AC (Cooler In);

Power: 400 W (VAC), 400 W (VDC), 300 W (Heater In), 135 W (Cooler In);

Staging Valve Box: 151X1202YD30SA01

Voltage: 240 V AC (50/60 Hz), 125 V DC, 240 V AC (Heater In), 240 V AC (Cooler In);

Power: 270 W (VAC), 270 W (VDC), 300 W (Heater In), 135 W (Cooler In);

DLE Valve Box: 151X1202YD40SA01

Voltage: 220/240 V AC (50/60 Hz), 110/125 V DC, 220 V AC (Heater In), 220V AC (Cooler In);

Power: 700 W (220 VAC), 45 W (240 VAC), 700 W (220 VDC), 45 W (125 VDC), 300 W (Heater In), 135 W (Cooler In);

Supply Voltage: 24/28 V DC,

Degree of Protection: IP 66;

Ambient Temperature: -40 °C to 50 °C;

Hazardous Area Classification: Zone 2 as per IEC/EN 60079-10-1;

**Service Restriction:**

Unit Certification is required for this product.

1) Installation of the units, as per manufacturer's instructions.

2) Cables Connecting Wire Insulation Rating: 105 °C 300 V Minimum;

3) Not to be used for propulsion.

4) Test and Approval for hardware only. Each particular application/configuration is to be specifically approved on an ABS Classed Vessel/MODU by submitting, complete details (Assembly Drawings, Electrical Ratings, Wiring Schematics, etc.) for review.

**Comments:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

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**Terms of Validity:**

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**STANDARDS**

**ABS Rules:**

Rules for Conditions of Classification, Part 1 - 2015 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

Steel Vessels: 4-8-3/1.11, 4-8-4/27.1, 4-9-8/13

Steel Vessels Under 90 Meters (295 feet) in Length: 4-6-3/11.3, 4-6-1/15

Offshore Support Vessels (OSV Rules): 4-8-3/1.11, 4-8-4/29.1, 4-9-3/9, 4-9-8/13

Rules for Conditions of Classification, 2015- Offshore Units and Structures 1-1-A2, 1-1-A3, which covers the following:

Mobile Offshore Drilling Units: 4-3-1/15, 4-3-3/9.1.2, 4-3-4/5;

**National:**

NA

**International:**

EN 60079-0: 2012; IEC 60079-0:2011; EN 60079-15: 2010 and IEC 60079-15: 2010

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA