



CERTIFICATE NUMBER

16-HS1479352-PDA

DATE

27 Jan 2016

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

BASLER ELECTRIC

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: **Controller, Digital Universal Controller**

Model: **DGC-2020HD**

This Product Design Assessment (PDA) Certificate 16-HS1479352-PDA, dated 27/Jan/2016 remains valid until 26/Jan/2021 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/Consultant

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-A/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

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Telephone: 618-654-2341
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Email: info@basler.com
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Tier: 3 - Type Approved, unit certification not required

Product: Controller, Digital Universal Controller

Model: DGC-2020HD

Intended Service:

Marine and Offshore Applications: Digital Control System for control of Diesel Engines and generators on ACC and ACCU Classed Vessels.

Description:

Digital Genset Controller and load share system

Rating:

Voltage: Nominal - 12 VDC or 24 VDC, Range: 6 VDC to 32 VDC;

Power: Normal Operation - 18.1 W, Maximum - 25 W, Sleep - 12.7 W;

Enclosure Rating: IP 56 (Front Panel);

Operating Temperature: -40 °C to 70 °C (-40 °F to 158 °F), The color touch screen maintains operation from -20°C to 70°C (-4 °F to 158 °F);
(-4°F to 158°F).

See attached PDF for details;

Service Restriction:

Unit Certification is not required, unless used for propulsion generators. 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:

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

i) Tests and approval for hardware only.

ii) The specific functional and operational arrangements are to be specifically approved in connection with the design approval of particular generator type/arrangement.

Notes/Drawing/Documentation:

Drawing No. ABS Test Plan DGC-2020HD, ABS Test Plan DGC-2020HD, Revision: -, Pages: 1

Drawing No. CoC# 20130510-E97035, CoC# 20130510-E97035, Revision: -, Pages: 1

Drawing No. CoFC# 1042505 LR 23132-138S, CoFC# 1042505 LR 23132-138S, Revision: -, Pages: 1

Drawing No. DGC-2020HD Digital Genset Controller, DGC-2020HD Digital Genset Controller, Revision: -, Pages: 1

Terms of Validity:

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STANDARDS

ABS Rules:

Rules for Conditions of Classification, Part 1 - 2016 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2016 Steel Vessels: 4-2-1/7.3, 4-2-1/7.5, 4-8-3/3.13.2, 4-9-5/17, 4-9-6/23, 4-9-8/Table 1 & 2,

2016 Steel Vessels Under 90 Meters (295 Feet) in Length: 4-2-1/1.1, 4-6-4/3.21, 4-7-4/3.9.1;

2016 Offshore Support Vessels: 4-2-1/7.3, 4-2-1/7.5, 4-8-3/3.13.2, 4-9-5/17, 4-9-6/23, 4-9-8/Table 1 & 2

Rules for Conditions of Classification, Part 1 - 2015 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2016 Mobile Offshore Drilling Units: 4-3-1/15, 17.1, 6-1-7/5.17

National:

UL 6200:2015

International:

CSA C22.2 No 14:2013

Government:

NA

EUMED:

NA

OTHERS:

NA