



CERTIFICATE NUMBER
17-HS1612609-PDA

DATE
20 Mar 2017

ABS TECHNICAL OFFICE
Houston ESD - Electrical

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of
UE SYSTEMS

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: **Ultrasonic Inspection System**

Model: **Ultraprobe 9000**

This Product Design Assessment (PDA) Certificate 17-HS1612609-PDA, dated 20/Mar/2017 remains valid until 19/Mar/2022 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-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

UE SYSTEMS

14 HAYES STREET

ELMSFORD NY

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Email: info@uesystems.com

Web: www.uesystems.com

Tier: 2 - PDA Issued

Product: Ultrasonic Inspection System

Model: Ultraprobe 9000

Intended Service:

Marine & Offshore Application - Mechanical Inspection for Pumps, Motors, Bearing Conditions, Cavitation and Lack of Lubrication.

Detect leaks of the Compressed Air and Gas, leaks Seal and Gaskets, Hatches, Boilers, Valves and Exchangers.

Electrical inspection the Arcing, Corona, Switchgears, Transformers and Busbars.

Description:

Hand-held Pistol Type. Digital Ultrasonic Inspection, Information, Storage and Retrieval System.

Rating:

Frequency Range: 20 kHz-100 kHz

Operating Temperature: 32 °F-122 °F (0 °C -50 °C)

Hazardous Area: FM Approval: Intrinsically Safe for use in Class I, Division 1, Groups C & D; Intrinsically Safe AEx ib T3 for use in Class I, Zone 1, Group IIB, Hazardous (Classified) indoor Locations

Temperature Code Rating :Code T3

Sira Certification: Ex ib IIB T3 Gb, Ta: -20 °C to +50 °C

See Attached Brochure for Technical Features on Ultraprobe 9000;

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:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. Suitable for Hazardous Areas (Classified) Locations Class I, Division 1, Groups C & D only.

Notes/Drawing/Documentation:

UE Systems Declaration of Conformity UP9000 dated 10 February 2017, Revision: -, Pages: 1;

ABS Declaration of Conformity dated 28 November 2016, Revision: -, Pages: 1;

FM Approvals, Report No. 3052605 dated 24 November 2014, Revision:-, Pages: 2.

SIRA Certificate: Sira 08ATEX2235X, Issue: 8

Terms of Validity:

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STANDARDS

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ABS Rules:

Rules for Conditions of Classification, Part 1 - 2017 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2017 Steel Vessels Rules: 4-8-3/1.7, 4-8-3/13.1

Rules for Conditions of Classification, Part 1 - 2017 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2017 Mobile Offshore Drilling Units: 4-3-3/9.3.1

National:

CAN/CSA-C22.2 No.0-M91, General Requirements - Canadian Electrical Code, Part II

CAN/CSA-C22.2 No.157-92, Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations.

International:

EN 60079-0:2006, EN 60079-11:2007

Government:

NA

EUMED:

NA

OTHERS:

ASTM E1002-2011 requirements for Leak Detection