



CERTIFICATE NUMBER

02-LD295091-3-PDA

DATE

15 April 2013

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
PSM INSTRUMENTATION LTD. - HAYWARDS HEATH

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: **Liquid Level Sensor**

MODEL: **200 and 300**

This Product Design Assessment (PDA) Certificate 02-LD295091-3-PDA, dated 15/Apr/2013 remains valid until 14/Apr/2018 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

Jean-Claude G. Dennemont
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).

PSM INSTRUMENTATION LTD.

UNIT 3, BURRELL ROAD
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RH16 ITW
United Kingdom
Telephone: 44-14444-10040
Fax: 44-14444-10121
Email: james@psm-sensors.co.uk

MA Certificate No. 11-SO2036152-X1

Product: Liquid Level Sensor

Model: 200 and 300

Intended Service:

General Use as a Liquid Level Sensor.

Description:

200 Series: Electronic liquid level pressure sensor for the marine industry. Suitable for seawater and oils. Intrinsically safe area models available.

300 Series: 2-wire hydrostatic level pressure sensor for industrial application. Suitable for oils, chemicals, effluent, viscous fluids, sludge and water open channels flow. Intrinsically safe area models available.

Ratings:

200 Series:

Nominal ranges: 0.5, 1, 2, 4, 8, 16, 32, 50, 100 meters water
Calibrated spans: From 0-160mmWG to 0-100MWG
Overload: Minimum of 50 meters or 5 X nominal range
Operating Temperature: -25 to +95 deg. C (option: -80 to 150 deg.C)
Signal Output: 4-20-mA DC 2 wire, Power Supply: 12-30V DC
IP: 65 (IP 67 optional)
Certified option: EEx ia IIC T5

300 Series:

Nominal ranges: 0.5, 1, 2, 4, 8, 16, 32, 50, 100 meters water
Calibrated spans: From 0-300mm water to 0-100 water
Overload: Minimum of 50 meters or 5 X nominal range
Operating Temperature: -25 to +95 deg.C (option: -80 to 150 deg.C)
Signal Output: 4-2-mA DC 2 wire, Power Supply: 12-30V DC
IP: 65 (IP 67 optional)
Certified option: EEx ia IIC T5



Service Restrictions:

Unit Certification is not required for this product.

Comments:

Approval documentation:
BASEEFA Certificate No: 86B2028, No: 86B2029 and No: 86030.
ATEX Certificate for Pressure Transmitter Type RT168 (Cert No: ITS03ATEX21770X), ATEX Certificate for Pressure Sensor Series 200/300 (Cert No: ITS03ATEX21771), Test report by Technical Research Centre of Finland (Report No: TEL 4268) & EMI Test report by Radio Frequency Investigation Ltd (Report No: RFINTRB2\5895).

Notes / Drawings / Documentation:

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

Term of Validity:

This Product Design Assessment (PDA) Certificate 02-LD295091-3-PDA, dated 15/Apr/2013 remains valid until 14/Apr/2018 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.

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STANDARDS

ABS Rules:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. The Rules applicable to this assessment are: 2013 Steel Vessel Rules 1-1-4/7.7, 4-9-7/13.1 and 4-8-3/1.7

National:

NA

International:

NA

Government Authority:

NA

EUMED:

NA

Others:

NA

