



CERTIFICATE NUMBER  
16-HG1476860-PDA

DATE  
22 Jan 2016

ABS TECHNICAL OFFICE  
Hamburg Engineering Department

# CERTIFICATE OF DESIGN ASSESSMENT

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

## HEINRICH KUEBLER AG

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: **Level Indicator, By Pass Type**

Model: **K/LM..., K/E..., K/PG..., K/OP...**

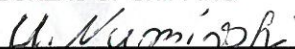
This Product Design Assessment (PDA) Certificate 16-HG1476860-PDA, dated 22/Jan/2016 remains valid until 21/Jan/2021 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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



Ulf Numirski  
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).

**HEINRICH KUEBLER AG**

RUESSENSTR. 4

BAAR

Switzerland CH-6340

Telephone: +41-417666262

Fax: +41-417666263

Email: info@ksr-kubler.com

Web: www.ksr-kubler.com

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**Tier: 2 - PDA Issued**

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**Product:** Level Indicator, By Pass Type  
**Model:** K/LM..., K/E..., K/PG..., K/OP...  
**Intended Service:**  
Liquid level gauging.

**Description:**

Magnetic level switches with hermetically sealed reed switches which are actuated by the magnetic field of a permanent magnet.

Certified safe types: II 2G Ex ia IIC T6 to T1 Gb, II 2D Ex tb IIIC T80°C to T300°C Db IP6X, II 2 G Ex d IIC T6 to T4 Gb, II 2D Ex tb IIIC T80°C to T120°C Db IP6X, II 2G Ex mb IIC T6 to T5 Gb, II 2D Ex tb IIIC T80°C to T95°C Db IP6X (SEV 11 ATEX 0190)

(For more details please see attachment)

**Rating:**

230 V AC/ up to 2 A/ up to 100 VA, 250 V AC/ 1 A/ 100 VA, minimum IP65, max. 200°C

**Service Restriction:**

Unit Certification is not required for this product. If the manufacturer or purchaser's request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

- Level sensing devices installed on tanks at locations where they are subjected to a static head of liquid are to be fitted with valves or arranged such that they may be removed without emptying the tank.

- ATEX certified equipment is not to be installed in hazardous areas on U.S. vessels unless it can be proven to have been tested to the applicable IEC 60079 series standards by an independent laboratory accepted by the U.S. Coast Guard.

**Comments:**

Each particular installation is to be approved in conjunction with the relevant system, tank arrangement and hazardous zone.

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

**Notes/Drawing/Documentation:**

Drawing No. 1008 Zchn1008\_026, Dimension Drawing, Revision: -, Pages: 1

Drawing No. 1008 Zchn1008\_058, Dimension Drawing, Revision: -, Pages: 1

Drawing No. 1008 Zchn101252, Dimension Drawing, Revision: -, Pages: 1

Drawing No. 1008 Zchn101342, Dimension Drawing, Revision: -, Pages: 1

Drawing No. 1008 ZchnF-HBN\_5528, Dimension Drawing, Revision: -, Pages: 1

Drawing No. 1008 ZchnF-HBN\_5529, Dimension Drawing, Revision: -, Pages: 1

Drawing No. 1008 ZchnF1008\_01, Dimension Drawing, Revision: -, Pages: 1

Drawing No. 1008 ZchnF1008\_02, Dimension Drawing, Revision: -, Pages: 1

Drawing No. 1008 ZchnF1008\_04, Dimension Drawing, Revision: -, Pages: 1

Drawing No. 1008 ZchnF1008\_07, Dimension Drawing, Revision: -, Pages: 1

Drawing No. 1008 ZchnF1008\_08, Dimension Drawing, Revision: -, Pages: 1

Drawing No. 1008 ZchnF1008\_09, Dimension Drawing, Revision: -, Pages: 1

Drawing No. 1008\_150, Katalog, Revision: -, Pages: 1

Drawing No. SEV 11 ATEX 0190, ATEX Certificate, Revision: -, Pages: 1

**Terms of Validity:**

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**HEINRICH KUEBLER AG**  
RUESSENSTR. 4  
BAAR  
Switzerland CH-6340  
Telephone: +41-417666262  
Fax: +41-417666263  
Email: info@ksr-kubler.com  
Web: www.ksr-kubler.com

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**Tier: 2 - PDA Issued**

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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.

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**STANDARDS**

**ABS Rules:**

2016 Steel Vessel Rules, 1-1-4/ 7.7, 1-1-Appendix 3 and 4, 4-6-2/ 9.11.3, 4-6-4/ 13.5.6(d)/ 15.3.4(d), 4-8-3/ 1.7/ 1.11.1/ 1.17/ 13, 4-9-8/ 7/ 13

**National:**

NA

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA