

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER	BD SENSORS GmbH BD-Sensors-Str. 1 95199 Thierstein Germany
DESCRIPTION	Level probe
TYPES	LMK 458*, DX14A-LMK458*, LMK 458 H*, DX15A-LMK458 H*, EP 500 Software release: 2.2 (LMK458 H) 2.0 (DSK 701 C)
APPLICATION	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2, ENV3 and ENV4 (types marked with "**") as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 2002.
STANDARD	Manufacturer's specification

Certificate No.	13/20056 (E1)
Issue Date	21 June 2019
Expiry Date	25 November 2023
Sheet	1 of 2



Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

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RATINGS	Power supply:	24 V DC	
	Output:	4-20 mA	
	Pressure ranges:	LMK 458*	0-0.04 to 0-20
		DX14A-LMK458*	0-0.04 to 0-20
		LMK 458 H* (HART communication)	0-0.06 to 0-20
		DX15A-LMK458 H* (HART communication)	0-0.06 to 0-20
EP 500		0-0.06 to 0-20	

OTHER CONDITIONS Ratings for application in hazardous areas are to be obtained from the applicable Ex Certificates.

PLACES OF PRODUCTION

BD SENSORS GmbH
BD-Sensors-Str. 1
95199 Thierstein
Germany

BD SENSORS s.r.o.
Hradistska 817
CZ-687 08 Buchlovice
Czech Republic

The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. HTS/ETS 38384-19 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No.	13/20056 (E1)
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Sheet	2 of 2




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LR031.1.2016.06

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Design Appraisal Document

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Date
21 June 2019

Please quote this reference number on all future communications
HPC 1862142/38384-19/TW/AC

**THE LLOYD'S REGISTER'S TYPE APPROVAL SYSTEM, 2017
ISSUED TO: BD SENSORS GMBH, THIERSTEIN
FOR: LEVEL PROBE
TYPE APPROVAL CERTIFICATE NO. 13/20056 (E1)**

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register's Type Approval System Procedure TA14 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Unnumbered	Application Checklist	23.11.2018
HTS/ETS 29022-13	Marine Design Appraisal Document for Certificate No. 13/20056	26.11.2013
HPC1862057	Production Quality Assessment Form	26.06.2018
PRA1900136 / PRJ1109991632	Production Quality Assessment Form	28.05.2019
PRA1900136/1	Visit Report	28.05.2019
08.928.920	CSN EN ISO 9001:2016 Certificate	02.08.2018
Unnumbered	EU Declaration of conformity	22.03.2019
Unnumbered	Manufacturer's statement	12.04.2019


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FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the LR Type Approval System Procedure.

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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Part 3

Transmitters/Transducers

Producer/Licence No.	Item Description	Technical Details	Category/Additional Tests	Remarks	Cert. No.
BD SENSORS GmbH BD-Sensors-Str. 1 95199 Thierstein GERMANY	Level probe LMK 458* DX14A-LMK458* LMK 458 H* (HART communication) DX15A-LMK458 H* (HART communication) EP 500	Power supply Vdc: 24 Output (mA): 4-20 Pressure range (bar): 0-0.04 to 0-20 0-0.04 to 0-20 0-0.06 to 0-20 0-0.06 to 0-20 Software release: 2.2 (LMK458 H) 2.0 (DSK 701 C)	ENV1, ENV2, ENV3, ENV4 ^(**) (2002)	Expires: 25 November 2023 Ratings for application in hazardous areas are to be obtained from the applicable Ex Certificates.	13/20056 (E1)

