IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx EPS 21.0047X**	Page 1 of 3	Certificate history:
Status:	**Current**	Issue No: 0	
Date of Issue:	2021-10-25		
Applicant:	**Liebherr-Mischtechnik GmbH** Im Elchgrund 12 88427 Bad Schussenried **Germany**		
Equipment:	**Water content sensor type Litronic-WMSII and planar sensor P45-GD/P78-GD / rod sensor P45-GD**		
Optional accessory:			
Type of Protection:	**Intrinsic safety "i", flameproof enclosure "d", protection by enclosure "t"**		
Marking:	Ex db/ia IIC T4 Ga/Gb Ex tb/ia IIIC T135°C Da/Db		

Approved for issue on behalf of the IECEx Certification Body:

Position: **Certification Manager**

Signature: (for printed version)

Date: 2021-10-25

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany

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Certificate No.: **IECEx EPS 21.0047X**

Date of issue: 2021-10-25

Issue No: 0

Manufacturer: **Liebherr-Mischtechnik GmbH**
Im Elchgrund 12
88427 Bad Schussenried
Germany

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1:2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26:2014-10 Edition:3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/EPS/ExTR21.0049/00

Quality Assessment Report:

DE/EPS/QAR20.0013/00

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The water content sensor type Litronic-WMSII is used to measure the water content in liquids and bulk solids in potentially explosive areas. It consists of a stainless steel carrier with built-in stray field capacitor including intrinsically safe sensor electronics and interface electronics in the transmitter head. Simple equipment such as a customer-specific flange for the rod sensors or a screw-in and weld-on flange for the planar sensors are used for assembly.
The stainless steel carrier with the stray field capacitor is installed in the hazardous area of category 1. The mounting flange is installed in the partition wall, which separates the areas in which equipment of category 1 or 2 is required.

Supply voltage: U_n = 24 VDC (max. 30V SELV / PELV)

Maximum supply current: I = 150 mA

SPECIFIC CONDITIONS OF USE: YES as shown below:

The flameproof joints are not intended to be repaired.

Build-up of electrostatic charge on the painted enclosure shall be avoided. High charge generating processes shall be excluded.

Maximum ambient temperature range :

Sensor-head: -20 °C to +80 °C

Transmitter-head: -20 °C to +70 °C

Maximum process temperature at Sensor: -20 °C to +80 °C