



## UK - Type Examination Certificate

- (1)
- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – **UKSI 2016:1107 (as amended)**

- (3) UK - Type Examination Certificate Number

**EPS 22 UKEX 1 159 X**

**Revision 0**

- (4) Equipment: Litronic ® WMS II Sensors  
Planar sensor P45-GD / P78-GD, Rod sensor P45-GD

- (5) Manufacturer: Liebherr-Mischtechnik GmbH

- (6) Address: Im Elchgrund 12  
88427 Bad Schussenried  
Germany

- (7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

- (8) Bureau Veritas Consumer Products Services United Kingdom Limited, approved body No. 8507 in accordance with UKSI 2016:1107 (as amended) Part 4, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Schedule 1 of UKSI 2016:1107 (as amended). The examination and test results are recorded in the confidential documentation under the reference number 20TH0483.

- (9) Compliance with the essential health and safety requirements has been assured by compliance with:

**EN IEC 60079-0:2018**

**EN 60079-1:2014**

**EN 60079-11:2012**

**EN 60079-26:2015**

**EN 60079-31:2014**

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.
- (11) This UK - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with UKSI 2016:1107 (as amended). Further requirements apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.
- (12) The marking of the equipment shall include the following:



II 1/2 G Ex db/ia IIC T4 Ga/Gb

II 1/2 D Ex tb/ia IIIC T135°C Da/Db



Certification department of explosion protection

Warrington, 14-10-2022

*N. Wilkinson*  
Natalie Wilkinson

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(13)

## Annex

(14) **UK - Type Examination Certificate EPS 22 UKEX 1 159 X**

**Revision 0**

(15) Description of equipment:

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.

Electrical data:

Supply voltage:  $U_n = 24 \text{ VDC (max. 30 V SELV/PELV)}$   
Maximum supply current:  $I = 150 \text{ mA}$

(16) Reference number: 20TH0483

(17) Special conditions for safe use:

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:  $-20 \text{ }^\circ\text{C to } +80 \text{ }^\circ\text{C}$   
Transmitter-head:  $-20 \text{ }^\circ\text{C to } +70 \text{ }^\circ\text{C}$   
Maximum process temperature (Sensor):  $-20 \text{ }^\circ\text{C to } +80 \text{ }^\circ\text{C}$

(18) Essential health and safety requirements:

Met by compliance with standards.

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