

(1) **EU - Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) EU - Type Examination Certificate Number

**EPS 20 ATEX 1 207 X**

**Revision 0**

(4) Equipment: Planar sensor type P78-E\*\*

(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 Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, 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 Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 10TH0484.

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


**EN IEC 60079-0:2018**


**EN 60079-31:2014**

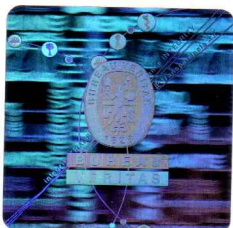
(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive 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 2D Ex tb IIIC T85°C Db

 II 3D Ex tc IIIC T85°C Dc



Certification department of explosion protection

Hamburg, 2021-12-07



U. Feike



**BUREAU  
VERITAS**



(13)

## Annex

(14) **EU - Type Examination Certificate EPS 20 ATEX 1 207 X**

**Revision 0**

(15) Description of equipment:

The planar sensor type P78-E is part of an independently operating humidity measurement system. The planar sensor is a so-called "intelligent sensor". This means that the built-in microprocessor enables complete problem solving in one component as well as extended functionality. The sensor may be installed and operated in potentially explosive areas of zones 21/22.

Electrical data:

Rated voltage 8...30 V

Rated power 0.4 VA

(16) Reference number: 20TH0484

(17) Special conditions for safe use:

Ambient temperature range:  $+5\text{ °C} \leq T_a \leq +75\text{ °C}$

The enclosure may only be opened if no explosive atmosphere is present.

The device must be connected either outside of the potentially explosive area or in a housing that corresponds to an ignition protection type in accordance with EN IEC 60079-0.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Hamburg, 2021-12-07



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