



UK - Type Examination Certificate

(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 1 160 X

Revision 0

(4) Equipment: Litronic ® - FMS planar sensor 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 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 20TH0484.

(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.

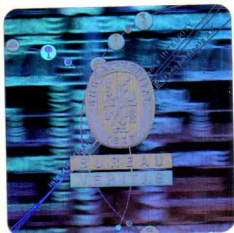
(11) This UK - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with UKSI 2016:1107 (as amended). Further requirements apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:



II 2D Ex tb IIIC T85°C Db

II 3D Ex tc IIIC T85°C Dc



Certification department of explosion protection

Warrington, 14-10-2022

N. Wilkinson

Natalie Wilkinson

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Bureau Veritas Consumer Products Services United Kingdom Limited
<https://www.bureauveritas.co.uk/consumer-products-testing>
+44 (0) 1925 854 360

Registered Office: 31 Kingsland Grange,
Woolston, Warrington, Cheshire, WA1 4RW

Registered in England & Wales
Company Number: 00852439



(13)

Annex

(14) **UK - Type Examination Certificate EPS 22 UKEX 1 160 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.

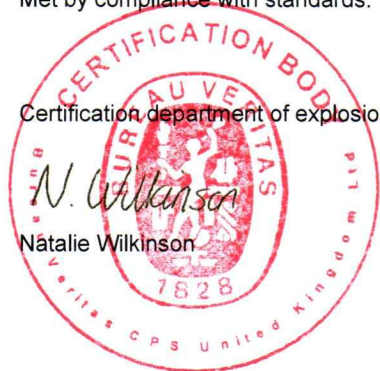
The device must be connected either outside of the potentially explosive area or in a housing that corresponds to an ignition protection type in accordance with EN IEC 60079-0.

(18) Essential health and safety requirements:

Met by compliance with standards.

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