

EU-TYPE EXAMINATION CERTIFICATE



- [1]
- [2] **Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 2014/34/EU**
- [3] EU-Type Examination Certificate Number: **DEMKO 16 ATEX 1785 Rev. 0**
- [4] Product: **meriSense, Model No. MS7nnX-YYZZZZ**
- [5] Manufacturer: **Meriam Process Technologies**
- [6] Address: **10920 Madison Avenue, Cleveland, OH 44102 USA**
- [7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no. **4787507319**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013 **EN 60079-11:2012**
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.
- [11] This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.
- [12] The marking of the product shall include the following:

II 1 G Ex ia IIC T4 Ga

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2017-03-16



Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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Schedule

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EU-TYPE EXAMINATION CERTIFICATE No. DEMKO 16 ATEX 1785 Rev. 0

[15]

Description of Product

The meriSense MS7nnX-YYZZZZ is an interchangeable smart pressure sensor module designed to sense pressure.

Nomenclature:

The nomenclatures for the MeriSense model is as follows:

MS7	nn	X	-YY	ZZZZ
I	II	III	IV	V

I - Basic model number: MS7

II - Two alphanumeric characters to indicate version of a meriSense

III - X denotes intrinsically safe product

IV - Where YY maybe AI or CI to represent absolute or compound Isolated sensor type

V - ZZZZ represents alphanumeric characters, 0-9 or A-Z, for pressure range.

Temperature range

The ambient temperature range is -10 °C to +50 °C with a T4 temperature classification.

Electrical data

Entity Parameters for meriSense:

U_i : 5.5 VDC

I_i : 227 mA

P_i : 1.25 W

L_i : 0 uH

C_i : 30 uF

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Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. 8 on page 1 of this EU-Type Examination Certificate.

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Specific conditions of use:

N/A

[18]

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The meriSense MS7nnX-YYZZZZ has in addition passed the tests for Ingress Protection to IP 67 in accordance with EN60529:1991+A1:2000+A2:2013.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.