



EU-TYPE EXAMINATION CERTIFICATE

- [1] **Equipment or Protective System intended for use in potentially explosive atmospheres - Directive 2014/34/EU**
- [2] EU-type Examination Certificate number:

IMQ 16 ATEX 003 X

- [4] PRODUCT: BARO-THERMO-IGROMETER
TYPE/SERIES: MD2207
- [5] MANUFACTURER: Microdata Due S.r.l.
ADDRESS: Via Greti del Vara, 9 I-19020 Follo (SP)
- [6] APPLICANT: Microdata Due S.r.l.
Via Greti del Vara, 9 I-19020 Follo (SP)
- [7] This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documents therein referred to.
- [8] IMQ, notified body N° 0051, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product 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 to the Directive.
The examination and test results are recorded in confidential Report No.:
AT16-0005130-02
- [9] Compliance with Essential Health and Safety Requirements, except in respect of those listed at item 18 of the annex, 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 equipment or protective system 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 this certificate.
- [12] The marking of the equipment or protective system shall include the following:



II 2GD

Ex ia IIC T5 Gb

Ex ia IIIC T100°C Db

THIS DOCUMENT IS COMPOSED OF 3 PAGES INCLUDING 1 ANNEX

IMQ

FIRST ISSUE: 2016-01-21
CURRENT ISSUE: 2017-01-24

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SGQ N° 005 A EMAS N° 003 P
SGA N° 006 D PRD N° 005 B
SGE N° 006 M PRS N° 080 C
SCR N° 005 F ISP N° 063 E
SSI N° 003 G LAB N° 0121
FSM N° 007 I LAT N° 021

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Signatory of EA, IAF and ILAC Mutual Recognition Agreements



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ANNEX

[13]

[14] EU-type Examination Certificate number: **IMQ 16 ATEX 003 X**

[15] DESCRIPTION OF PRODUCT:

THE BARO-THERMO-HYGROMETER IS A SAFETY INTRINSICALLY EQUIPMENT FOR MEASURING THE PRESSURE, THE TEMPERATURE AND THE HUMIDITY OF THE AMBIENT WHERE IT IS INSTALLED. THE MEASURE PCB BOARD IS ENCLOSED IN AN ALUMINUM CASE.

[15.1] MODELS/SERIES IDENTIFICATION: MD2207

[15.2] RATINGS: = Supply voltage 20 V dc modulated
Maximum current 350 μ A

[15.3] SAFETY RATINGS: $U_i = 28$ V DC ; $I_i = 110$ mA ; $P_i = 770$ mW ; $L_i =$ NEGLIGIBLE; $C_i =$ NEGLIGIBLE

[15.4] AMBIENT TEMPERATURE AND TEMPERATURE CLASSES:

TEMPERATURE CLASS T5

MAX SURFACE TEMPERATURE T100°C

TAMB: -20°C ÷ +75°C.

[15.5] DEGREE OF PROTECTION (IP CODE): 65 (EN 60529)

[15.6] WARNINGS:

WARNING — POTENTIAL ELECTROSTATIC CHARGING HAZARD — SEE INSTRUCTIONS.

FOR INTRINSIC SAFETY CONNECTIONS PARAMETERS, SEE SAFETY INSTRUCTIONS.

[16] REPORT: AT16-0005130-02

[16.1] ROUTINE (FACTORY) TESTS:

THE MANUFACTURER MUST CARRIED OUT THE ROUTINE TEST PRESCRIBED AT CLAUSES 27 OF THE EN 60079-0.

[16.2] CONFORMITY WITH THE DOCUMENTATION:

THE MANUFACTURER SHALL CARRY OUT THE VERIFICATIONS OR TESTS NECESSARY TO ENSURE THAT THE PRODUCT COMPLIES WITH THE DOCUMENTATION.

MARKING THE EQUIPMENT IN ACCORDANCE WITH CLAUSE 29 OF EN 60079-0, THE MANUFACTURER ATTESTS ON HIS OWN RESPONSIBILITY THAT:

THE EQUIPMENT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE RELEVANT STANDARDS IN SAFETY MATTERS;

THE ROUTINE VERIFICATIONS AND ROUTINE TESTS IN 28.1 OF EN 60079-0 HAVE BEEN SUCCESSFULLY COMPLETED WITH POSITIVE RESULTS.

[16.3] INSTALLATION CONDITIONS:

ABOVE REFERRED EQUIPMENT IS FORESEEN TO BE INSTALLED IN LOCATIONS WHERE THERE ARE ENVIRONMENTAL CONDITIONS, AS CLEARLY SPECIFIED AT CLAUSE 1, PAR. 2 OF EN 60079-0.

INSTALLATION AND USE IN ATMOSPHERIC AND ENVIRONMENTAL CONDITIONS THAT ARE OUT OF ABOVE MENTIONED INTERVALS REQUEST SPECIAL CONSIDERATIONS AND ADDITIONAL MEASURES BY THE SIDE OF INSTALLER OR USER.

THESE SHOULD BE SPECIFIED TO THE MANUFACTURER BY THE USER; IT IS NOT A REQUIRED BY APPLICABLE STANDARD LISTED IN [9] THAT THE CERTIFICATION BODY CONFIRM SUITABILITY FOR THE ADVERSE CONDITIONS.

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ABOVE REFERRED EQUIPMENT SHALL BE SUPPLIED BY BARRIER ZENER MODULE MOD. MD9850 CONTAINING AN ASSOCIATED APPARATUS CERTIFIED ACCORDING TO EN 60079-0 AND EN 60079-11, WITH THE ELECTRICAL CHARACTERISTICS REPORTED IN SAFETY INSTRUCTIONS.

- [17] SPECIAL CONDITION OF USE (X):
WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS.
- [18] ESSENTIAL HEALTH AND SAFETY REQUIREMENTS:
THIS CERTIFICATE DOES NOT INDICATE COMPLIANCE WITH ELECTRICAL SAFETY AND PERFORMANCE REQUIREMENTS OTHER THAN THOSE EXPRESSLY INCLUDED IN THE STANDARDS LISTED IN [9].
THIS CERTIFICATE DOES NOT COVER HAZARDS COMING FROM ENVIRONMENTAL CONDITIONS DIFFERENT FROM THOSE CLEARLY AND PRECISELY INDICATED IN CLAUSE 1 OF EN 60079-0.
1.2.7 ACCORDING ANNEX VIII OF THE DIRECTIVE
1.4 NOT VERIFIED.
1.5 NOT APPLIED.
3 NOT APPLIED.
- [19] DESCRIPTIVE DOCUMENTS:
DL-AT16A0005130-02, REVISION 1, PAGES 37 OF 2016-11-17.
- [20] CERTIFICATION VALIDITY CONDITIONS:
THE USE OF THIS CERTIFICATE IS SUBJECT TO THE CERTIFICATION SCHEME AND TO THE REGULATION APPLICABLE TO HOLDERS OF IMQ CERTIFICATES.
THE VALIDITY OF THIS CERTIFICATE IS SUBJECT TO THE CONDITION THAT THE MANUFACTURER COMPLIES WITH THE RESULTS OF THE DOCUMENT REVIEW AND OF THE PERTINENT REQUIREMENT IF ANY INCLUDED, RECORDED IN THE RELEVANT COPY OF DOCUMENTATION AS PER 16.2.
ONE COPY OF THE MENTIONED DOCUMENTATION IS KEPT IN IMQ FILE.
- [21] In accordance with Article 41 of Directive 2014/34/EU, Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. New issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.
- [22] Variations:

January 2017: Standard update.

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