

The Low Voltage Directive (LVD) 2014/35/EU, Electromagnetic Compatibility (EMC) Directive 2014/30/EU, Directive 2014/34/EU on equipment and protective systems intended for use in potentially explosive atmospheres (ATEX) and Directive (RoHS) 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

a) The manufacturer

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b) The Products Covered by this Declaration

Capacity Level Meter

DLM-35Xi(XiT, XiM, XiMT)

c) Product brief

The capacitive level meters DLM-35Xi(XiT, XiM, XiMT) is intended for continuous level measurement of electric conductive and non-conductive liquids, bulky materials and granulate in tanks, containers and sump.

d) The Basis on which Conformity is being Declared

Intrinsic safety: EN 60079-0:2012
EN 60079-11:2012
EN 50303:2000

Electromagnetic compatibility: EN 61326-1
EN 55011-class B
EN 50121-3-2
EN 61000-4-2 Criterion A
EN 61000-4-3 Criterion A
EN 61000-4-4 Criterion B
EN 61000-4-5 Criterion B
EN 61000-4-6 Criterion A
EN 61000-4-8 Criterion A

e) Details of accredited person

Intrinsic safety:
Notified Body No. NB 1026, FTZÚ (Physical-Technical Testing Institute), Pikartská 1337/7,
716 07 Ostrava-Radvanice, Czech Republic.
EC-Type Examination Certificate No. FTZÚ 16 ATEX 0138X from 01.03.2017.

Electromagnetic compatibility:
Accredited testing laboratory No. 1004.3, Institute for testing and certification, a.s., Sokolovská 573, 686 01 Uherské
Hradiště, Czech Republic, ID: 47910381.
EMC protocol No. 414102772AE1 from 20. 3. 2015.

f) Special conditions for safe use

Version DLM-35Xi: II 1G Ex ia IIB T4 Ga, II 1D Ex ia IIIC T120°C Da
Version DLM-35XiT: II 1/2G Ex ia IIB T4 Ga/Gb, II 1/2D Ex ia IIIC T120°C Da/Db
Version DLM-35XiM (XiMT): I M1 Ex ia I Ma

Connected intrinsically safe apparatus must be galvanically separated or in the case of using the apparatus without galvanic separation (Zener barrier) it is necessary to carry out the equalization of potentials between transducer and the palce of barriers. The version DLM-35Xi can be placed into Zone 0 or Zone 20. For the implementation DLM-35XiT the only sensing electrode can be placed into Zone 0 or Zone 20, the head with electronics can be placed only into Zone 1 or Zone 21. The maximal temperature sensing electrodes is given by temperature of measured material. For the implementation DLM-35XiMT must be observed that the temperature of any surface, where coal dust can form a layer, does not exceed 150°C.

Intrinsically safe parameters:
Ui = 30 VDC, Ii = 132 mA, Pi=0,99 W, Li = 10 µH, Ci = 35 nF

Ambient temperature:
-40°C ≤ Ta ≤ + 75°C

g) Ensure production quality

Manufacturer's quality management system was found conform with the requirements of EN ISO 9001: 2015. The company is holder of the certificate of quality management system, reg. number CQS 2270/2018 dated 06.12.2018 and valid until 12. 10. 2021, issued by certification body CQS (IQNet). The certificate is valid for the development, manufacture and sales of electronic components and systems for measurement, control and industrial automation.

For products in potentially explosive atmospheres are to quality management system according to ISO 9001 applied special requirements according to EN ISO/IEC 80079-34:2011. The manufacturer got QUALITY ASSURANCE NOTIFICATION No. "FTZÚ 02 ATEX Q 016", issued by the Notified Body NB 1026 FTZÚ Ostrava-Radvanice. The notification is issued for protective systems intended for use in potentially explosive atmospheres acc. to Directive 2014/34/EU. The notice applies to a group of products with the type of explosion protection – Intrinsic safety "i" Protection with enclosure "t" and was issued on the basis of the audit protocol No. FTZÚ 02/ATEXQ/016 issued on 18. 06. 2020 and valid until 30. 06. 2023.

h) Manufacturer confirmation

The manufacturer identified in paragraph a) of this statement confirms that the properties of the product identified in point b) and c) of this declaration, meet the requirements, concretized in European technical standards identified in paragraph d) of this statement.

The product is under manufacturer's intended use safe. The manufacturer confirms that he has taken actions to ensure conformity of all products put on the market with technical documentation and the basic requirements.

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Ing. Dalibor Štverka, Ph.D.
General manager