

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 IEC 60079-0:2018 EN 60079-11:2012 EN 50303:2000
Electromagnetic compatibility:	EN 61326-1:2013 EN 55011:2009 -class B EN 50121-3-2:2006 EN 61000-4-2:2009 Criterion A EN 61000-4-3:2006 + A1:2007 + A2:2010 Criterion A EN 61000-4-4:2004 + A1:2010 Criterion B EN 61000-4-5:2006 Criterion B EN 61000-4-6:2009 Criterion A EN 61000-4-8:2010 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 and Supplement No. 1 from 7. 7. 2022.
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, types of electrodes: 20, 21, 22, 25, 30, 31, 40, 41, 50, 52:	II 1G Ex ia IIB T4...T2 Ga
Version DLM-35XiT, types of electrodes: 20, 21, 22, 25, 30, 31, 40, 41, 50, 52:	II 1/2G Ex ia IIB T4...T2 Ga/Gb
Version DLM-35Xi, types of electrodes: 20, 30, 40, 50:	II 1D Ex ia IIIC T ₂₀₀ 120°C ... T ₂₀₀ 345°C Da
Version DLM-35XiT, types of electrodes: 20, 30, 40, 50:	II 1/2D Ex ia IIIC T ₂₀₀ 120°C ... T ₂₀₀ 345 °C / T 90 °C...T 315 °C Da/Db
Version DLM-35XiM (XiMT):	I M1 Ex ia I Ma

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

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 place 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 sensing electrodes maximal temperature is given by temperature of measured process media.

Temperature class and maximal surface temperature depends on process media temperature.

Version Xi:

Temperature class for EPL Ga:

T2 ... for maximal process media temperature $T_m=270^{\circ}\text{C}$.

T3 ... for maximal process media temperature $T_m=180^{\circ}\text{C}$.

T4 ... for maximal process media temperature $T_m=115^{\circ}\text{C}$.

Maximal surface temperature for EPL Da:

Maximal process media temperature range is from -40°C to $+300^{\circ}\text{C}$.

Maximal surface temperature shall be calculated as $T_{200}=T_m + 45^{\circ}\text{C}$.

Version XiT:

Temperature class for EPL Ga/Gb:

T2 ... for maximal process media temperature $T_m=270^{\circ}\text{C}$.

T3 ... for maximal process media temperature $T_m=180^{\circ}\text{C}$.

T4 ... for maximal process media temperature $T_m=115^{\circ}\text{C}$.

Maximal surface temperature for EPL Da/Db:

Process media temperature range id from -40°C to 300°C .

Maximal surface temperature of EPL Da part of product shall be calculated as $T_{200}=T_m + 45^{\circ}\text{C}$.

Maximal surface temperature of EPL Db part of product shall be calculated as $T=T_m + 15^{\circ}\text{C}$.

Version XiM, XiMT:

Maximal temperature of process media is 135°C .

Equipment for application in explosive dust atmosphere must be installed in such a manner that the risk of propagating brush discharges is avoided. This restriction applies only to the part of the equipment where the label, cable gland or connector is located.

Ambient temperature:

$-40^{\circ}\text{C} \leq T_a \leq +75^{\circ}\text{C}$

Ambient temperature of the sensing part of the product: T_m - temperature of the medium

g) Ensure production quality

The manufacturer's quality management system was found to comply with the requirements of EN ISO 9001:2016. The company holds the quality management system certificate, reg. number CQS 2191/2024, dated October 13, 2024, and valid until October 12, 2027, issued by the certification body CQS (IQNet). The certificate is valid for the development, manufacture, and sale 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 80079-34:2020. 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 16. 6. 2023 and valid until 30. 6. 2026.

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.

Issued in Zlín, on March 1, 2025.



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