

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

#### Capacitive level meter

CLM-36Xi(T)

### c) Product brief

Capacitive level meter type CLM-36Xi(T) 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

Electromagnetic compatibility: EN 55022:1996-class B  
EN 61326-1:1998  
EN 61000-4-2:1997  
EN 61000-4-3:1997  
EN 61000-4-4:1997  
EN 61000-4-5:1997  
EN 61000-4-6:1997 class B

### 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 02 ATEX 0235X from 11. 10. 2002, Supplement No.1. from 20. 10. 2003, Supplement No. 2 from 12. 6. 2006, Supplement No. 3 from 13. 9. 2007, Supplement No. 4 from 13. 9. 2012, Supplement No. 5 from 3. 8. 2017 and Supplement No. 6 from 20. 1. 2023.

Electromagnetic compatibility:

Accredited testing laboratory No. 1032, Mesit QM, spol. s.r.o., Sokolovská 573, 686 01 Uherské Hradiště, Czech Republic ID: 47910381.  
EMC protocol No. 3615/0 from 25. 5. 2000.

### f) Special conditions for safe use

Version CLM-36Xi, electrode types 10, 11, 12, 20, 22, 30, 31, 32:

II 1G Ex ia IIB T5...T2 Ga

Version CLM-36XiT, electrode types 10, 11, 12, 20, 22, 30, 31, 32:

II 1/2G Ex ia IIB T5...T2 Ga/Gb

Version CLM-36Xi, electrode types 10, 20, 30, 31:

II 1D Ex ia IIIC T<sub>200</sub> 115°C ...T<sub>200</sub> 240°C Da

Version CLM-36XiT, electrode types 10, 20, 30, 31:

II 1/2D Ex ia IIIC T<sub>200</sub> 105°C ... T<sub>200</sub> 280 °C / T 90 °C...T 265 °C Da/Db

Intrinsically safe parameters:

Ui = 30 VDC, Ii = 132 mA, Pi=0,99 W, Li = 0,9 mH, Ci = 370 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 CLM-36Xi can be placed into Zone 0 or Zone 20. For the implementation CLM-36XiT 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  $T_m=275^{\circ}\text{C}$ .

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

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

T5 ... for maximal process media temperature  $T_m=80^{\circ}\text{C}$ .

Maximal surface temperature for EPL Da:

Maximal process media temperature range is from  $-40^{\circ}\text{C}$  to  $200^{\circ}\text{C}$ .

Maximal surface temperature shall be calculated as  $T_{200}=T_m + 40^{\circ}\text{C}$ .

Version XiT:

Temperature class for EPL Ga/Gb:

T2 ... for maximal process media temperature  $T_m=275^{\circ}\text{C}$ .

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

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

T5 ... for maximal process media temperature  $T_m=80^{\circ}\text{C}$ .

Maximal surface temperature for EPL Da/Db:

Process media temperature range is from  $-40^{\circ}\text{C}$  to  $250^{\circ}\text{C}$ .

Maximal surface temperature of EPL Da part of product shall be calculated as  $T_{200}=T_m + 40^{\circ}\text{C}$ .

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

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 of head part of product:  $-40^{\circ}\text{C} \leq T_a \leq + 75^{\circ}\text{C}$ .

Ambient temperature of sensor part of product:  $T_m$  - measured process media temperature.

#### **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 1 January 2025.



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