

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 60079-0:2012+A11:2013
EN 60079-11:2012

Electromagnetic compatibility: EN 55022-class B
EN 61326-1
EN 61000-4-2
EN 61000-4-3
EN 61000-4-4
EN 61000-4-5
EN 61000-4-6 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 11.2. 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 and Supplement No. 5 from 03. 8. 2017.

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

II 1G Ex ia IIB T5 Ga; II 1D Ex ia IIIC T83°C Da; II 1/2G Ex ia IIB T5 Ga/Gb; II 1/2D Ex ia IIIC T83°C Da/Db.

If the apparatus is used as device of Group II and with using of an approved power supply device, which output parameters comply with required input parameters, it is necessary to have an galvanic separation.

When used in zone 0 the present explosive atmosphere of air mixture and gases, vapours of mists must comply with:

$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq 60^{\circ}\text{C}$

$0.08 \text{ Mpa} \leq p \leq 0.11 \text{ Mpa}$.

Design CLM-36Xi can be used in zone 0 or zone 20. With design CLM-36XiT can be used in zone 0 and zone 20 only electrode part an head with electronics can be used only in zone 1 or zone 21.

Ambient temperature: $T_{\text{amb}} = -40^{\circ}\text{C}$ to $+75^{\circ}\text{C}$

Temperature of measured medium according to design variant:

bar non-insulated electrode -40°C to $+200^{\circ}\text{C}$

bar insulated electrode -40°C to $+120^{\circ}\text{C}$

cable with insulated cable -40°C to $+105^{\circ}\text{C}$

Maximum temperature of electrodes is equal to temperature of measured medium.

Maximum input parameters:

$U_i = 30 \text{ V}$; $I_i = 132 \text{ mA}$; $P_i = 0.99 \text{ W}$; $C_i = 370 \text{ nF}$; $L_i = 0.9 \text{ mH}$

g) Ensure production quality

Manufacturer's quality management system was found conform with the requirements of EN ISO 9001: 2016. The company is holder of the certificate of quality management system, reg. number CQS 2201/2021 dated 13.10.2021 and valid until 12. 10. 2024, 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 80079-34:2020. 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 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.

Issued in Zlín, on 26. 10. 2021



Ing. Dalibor Štverka, Ph.D.
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