



(1) **Supplementary EU - Type Examination Certificate No.1**

(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 20 ATEX 0036X

(4) Product: **Capacity level meter type EMKOCAP-26Xi (XiT)**

(5) Manufacturer: **EMKOMETER s.r.o.**

(6) Address: **Pod Lipami 340/52a, 130 00 Praha 3 - Žižkov, Czech Republic**

(7) This supplementary certificate extends EU - Type Examination Certificate No. FTZÚ 20 ATEX 0036X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-11:2012

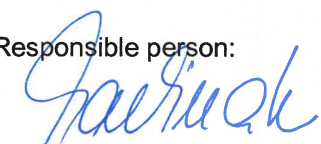
(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

(11) The marking of the product shall include the following:

See clause (15)

(12) This certificate is valid till: **31.10.2029**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 23.10.2024

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**Physical-Technical Testing Institute
Ostrava - Radvanice**

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Schedule

(14) **Supplementary EU - Type Examination Certificate No. 1
to FTZÚ 20 ATEX 0036X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus.
- Change of Ex marking.
- Extension of special conditions of use.
- Evaluation according to the newest standards.
- Extension of certificate validity.

This supplementary certificate describes the minor constructional changes of product. The certificate validity was prolonged for next five years. The list of updated documents is listed in clause (19) of this supplementary certificate. Technical parameters were modified.

Ex marking of product:

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

version Xi, electrode types 10, 11, 12, 20, 22, 30, 31, 32

Ex II 1D Ex ia IIIC T₂₀₀ 115 °C ...T₂₀₀ 240 °C Da

version Xi, electrode types 10, 20, 30, 31

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

version XiT, electrode types 10, 11, 12, 20, 22, 30, 31, 32

Ex II 1/2D Ex ia IIIC T₂₀₀ 105 °C ... T₂₀₀ 280 °C / T 90 °C ... T 265 °C Da/Db

version XiT, electrode types 10, 20, 30, 31

Technical parameters:

Intrinsically safe parameters:

U_i = 30 VDC, I_i = 132 mA, P_i = 0.99 W, L_i = 0.9 mH, C_i = 370 nF

Ambient temperature of head part of product: -40°C ≤ T_a ≤ +75°C

Ambient temperature of sensor part of product: T_m – measured process media temperature

(16) Report Number: 20/0036/1

Responsible person:

Lukáš Martinák
Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 23.10.2024

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tel.: +420 595 223 111, +420 604 203 525, e-mail: ftzu@ftzu.cz, www.ftzu.cz



**Physical-Technical Testing Institute
Ostrava - Radvanice**

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(14) **Supplementary EU - Type Examination Certificate No. 1
to FTZÚ 20 ATEX 0036X**

(17) **Specific Conditions of Use:**

1. Connected intrinsically safe apparatus must be galvanically separated or in the case of using the apparatus without galvanic separation (Zenner barrier) it is necessary to carry out the equalization of potentials between transducer and the place of barriers.
2. The version EMKOCAP-26Xi can be placed into Zone 0 or Zone 20. For the implementation EMKOCAP-26XiT 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.
3. 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°C to 200°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°C to 250°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 $T = T_m + 15^{\circ}\text{C}$.

4. 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.

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



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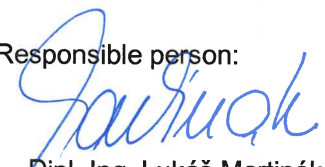
(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this supplementary certificate.

(19) Drawings and Documents:

Number	Sheets	Date	Description
230 cz_man_EMKOCAP-26, 5/2020	26	05/2020	User's manual
231	1	23.10.2024	Labels

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



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EU - Type Examination Certificate

(1)

(2)

Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)

(3) EU - Type Examination Certificate number:

FTZÚ 20 ATEX 0036X

(4) Product: **Capacity level meter type EMKOCAP-26Xi (XiT)**

(5) Manufacturer: **EMKOMETER s.r.o.**

(6) Address: **Pod Lipami 340/52a, 130 00 Praha 3 - Žižkov, Czech Republic**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report number:

20/0036 dated 25.05.2020

(9) Compliance with the Essential Health and Safety Requirements 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 product is subject to Specific Conditions of Use specified in the schedule to this certificate.

(11) This 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 product shall include the following:

Ver. Xi **Ex II 1G Ex ia IIB T5 Ga**

Ex II 1D Ex ia IIIC T83°C Da

Ver. XiT **Ex II 1/2G Ex ia IIB T5 Ga/Gb**

Ex II 1/2D Ex ia IIIC T83°C Da/Db

(13) This certificate is valid till: **13.09.2022**

Responsible person:

Lukáš Martinák
Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 25.05.2020

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(14) **EU - Type Examination Certificate No. FTZÚ 20 ATEX 0036X**

(15) Description of Product:

Capacity level meter type EMKOCAP-26Xi is intended for continuous level measurement of electric conductive and non-conductive liquids, bulky materials and granulate in tanks, containers and sump. The liquid level is converted to electric current signal 4 to 20 mA. Sensors are manufactured in several modifications: with rod electrode, rod electrode and reference tube and cable electrode. Next variants are with insulated electrode or non-insulated electrode. All modifications are produced in variant suitable for high temperature with marking EMKOCAP-26XiT.

Technical parameters:

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

Ambient temperature: $T_a = -20^\circ\text{C}$ to $+60^\circ\text{C}$ – for 1G and 1D

$T_a = -40^\circ\text{C}$ to $+75^\circ\text{C}$ – for 2G and 2D

(16) Report Number.: 20/0036

(17) Specific Conditions of Use:

1. 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 a galvanic separation.
2. When used in zone 0 the present explosive atmosphere of air mixture and gases, vapours or mists must comply with: $-20^\circ\text{C} \leq T_{\text{amb}} \leq +60^\circ\text{C}$,
 $0.08 \text{ MPa} \leq p \leq 0.11 \text{ MPa}$
3. Design EMKOCAP-26Xi can be used in zone 0 or zone 20. With design EMKOCAP-26XiT can be used in zone 0 and zone 20 only electrode part and head with electronics can be used only in zone 1 or zone 21.
4. Ambient temperature: $T_{\text{amb}} = -40^\circ\text{C}$ to $+75^\circ\text{C}$

Temperature of measured medium according to design variant:

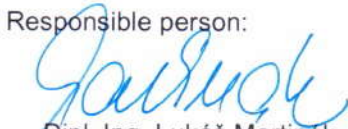
bar non-insulated electrode -40°C to $+200^\circ\text{C}$

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.

Responsible person:


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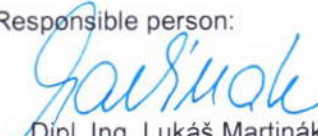
(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate.

(19) Drawings and Documents:

Document name/Drawings:	Date:	Sheets:
Instruction manual EMKOCAP-26	05.2020	25
Drawing No. 230	17.12.2019	1

Responsible person:


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