



EU TYPE EXAMINATION CERTIFICATE

- [1] Protective equipment and systems intended for use in potentially explosive atmospheres. Directive 2014/34/EU (Rozporządzenie Ministra Rozwoju z dnia 06.06.2016r. Dz.U. z dnia 09.06.2016r. Poz. 817).
- [2] EU type examination certificate (module B):
KDB 13ATEX0012U 3rd edition
- [3] Component:
**Universal instrument housing
type XD-S120, XD-S120win,
XD-S120L, XD-S120Lwin**
- [4] Manufacturer:
Limatherm S.A.
- [5] Address:
ul. Tarnowska 1, 34-600 Limanowa, Poland
- [6] The component and any acceptable variations thereto are specified in the schedule to this certificate.
- [7] Central Mining Institute, Notified Body no 1453 according to Directive 2014/34/EU of February 26, 2014, approves that the protective equipment or system specified in this certificate has been found to comply with the essential health and safety requirements for the design and construction of protective equipment and systems intended for use in potentially explosive atmosphere given in Annex II to Directive 2014/34 /EU (Załącznik nr 2 Rozporządzenia Ministra Rozwoju z dnia 06.06.2016r. Dz.U. z dnia 09.06.2016r. Poz. 817). The results of the assessment and examinations as well as the list of agreed documentation are recorded in the confidential Report **KDB No 13.014-3 [T-6947]**
- [8] The essential health and safety requirements have been met by compliance with the requirements of the following standards:
**EN IEC 60079-0:2018; EN 60079-1:2014;
EN 60079-31:2014**
- [9] The "U" symbol placed after the certificate number indicates that this certificate is for the component and must not be mistaken with the certificate for the protective equipment or system. This certificate shall be included in the final certification of the protective equipment or system.
- [10] This EU type examination certificate relates only to the construction, assessment and testing of the specified component in accordance with Directive 2014/34 /EU (Rozporządzenie Ministra Rozwoju z dnia 06.06.2016r. Dz.U. z dnia 09.06.2016r. Poz. 817). The certificate shall not cover the remaining requirements of the Directive regarding the manufacturing process and placing the component on the market.
- [11] The marking of the component shall include the following:



**I M2 Ex db I Mb
II 2G Ex db IIC Gb
II 2D Ex tb IIIC Db**

inż. Andrzej TRĘBACZEWSKI

ATEX Certification
Expert



Główny Instytut Górnictwa
Jednostka Oceny Zgodności
p.o. KIEROWNIKA

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Date of issue: **24.06.2021**

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[15] Description:

Universal instrument housings type XD-S120, XD-S120win, XD-S120L, XD-S120Lwin are designed to accommodate different electronic instruments or devices working in hazardous areas.

Instrument housings XD-S120, XD-S120L are made of stainless steel. The housing consists of a body and a cover. It is used O-ring rubber (VMQ - Elastosil R701/50 or FKM Fluoroelastomer VR1) to seal the joint. Two conduit holes (D2, D3) for cable gland and one process opening (D1) for sensor or thermowell are placed on the body of the device.

Instrument housings XD-S120win, XD-S120Lwin are made of stainless steel. The housing consists of a body and a cover with glass window. It is used O-ring rubber (VMQ - Elastosil R701/50 or FKM Fluoroelastomer VR1) to seal the joint. Two conduit holes (D2, D3) for cable gland and one process opening (D1) for sensor or thermowell are placed on the body of the device.

Location, number and destination of particular threaded entries and the parameters of corresponding flameproof joints are specified in the manual.

Technical parameters:

Version	XD-S120	
Overall dimensions	167mm x 146mm x 127mm	
Version	XD-S120L	
Overall dimensions	167mm x 146mm x 114mm	
Ingres protection	IP54 - not applicable for group IIIC IP66/IP67	
Service temperature	O-ring VMQ rubber	O-ring FKM rubber
	-50°C ÷ 150°C	-20°C ÷ 200°C

Version	XD-S120win	
Overall dimensions	167mm x 146mm x 143,5mm	
Version	XD-S120Lwin	
Overall dimensions	167mm x 146mm x 114mm	
Ingres protection	IP54 - not applicable for group IIIC IP66/IP67	
Service temperature	O-ring VMQ rubber	O-ring FKM rubber
	-50°C ÷ 85°C	



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[16] Test Report:

"ATEX assessment report" KDB No 13.014-3

[17] Special conditions of use:

- Universal instrument housings type XD-S120, XD-S120win XD-S120L, XD-S120Lwin after equipped with the electrical components shall be evaluated in accordance to the procedures of the final certification;
- For some flameproof joints gaps are smaller and the width is larger than specified in EN 60079-1. The values of these gaps and widths are included in the instruction manual;
- The maximum service temperature of the window is 85°C;
- Requirements of service temperature for the o-rings are:
 - Ts: -50°C ÷ +85°C for housing type XD-S120win, XD-S120Lwin with o-ring VMQ - Elastosil R701/50,
 - Ts: -20°C ÷ +85°C for housing type XD-S120win, XD-S120Lwin with o-ring FKM Fluoroelastomer VR1,
 - Ts: -50°C ÷ +150°C for housing type XD-S120, XD-S120L with o-ring VMQ - Elastosil R701/50,
 - Ts: -20°C ÷ +200°C for housing type XD-S120, XD-S120L with o-ring FKM Fluoroelastomer VR1;
- Rotating machines, or other devices which create turbulence, shall not be incorporated;
- Oil-filled circuit-breakers and contactors shall not be used;
- The content of the Ex component enclosure equipment may be placed in any arrangement provided that an area of at least 40% (group IIC) or 20% (group I) of each cross-sectional area remains free. Separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12,5mm;

[18] Essential health and safety requirements:

Met by fulfilling the requirements of the following standards:

- EN IEC 60079-0:2018 (PN-EN IEC 60079-0:2018-09);
- EN 60079-1:2014 (PN-EN 60079-1:2014-12);
- EN 60079-31:2014 (PN-EN 60079-31:2014-10);



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Document history:

- EC type examination certificate KDB 13ATEX0012U, 0 edition of 22.03.2013, initial certification
- EU type examination certificate KDB 13ATEX0012U, 1st edition of 30.11.2016, supersedes the certificate KDB 13ATEX0012U, 0 edition of 22.03.2013. A version XD-S120 has been implemented.
- EU type examination certificate KDB 13ATEX0012U, 2nd edition of 23.11.2018, supersedes the certificate KDB 13ATEX0012U, 1st edition of 30.11.2016. A versions XD-S120L and XD-S120Lwin have been implemented.
- EU type examination certificate KDB 13ATEX0012U, 3rd edition of 24.06.2021, supersedes the certificate KDB 13ATEX0012U, 1st edition of 23.11.2018. Harmonized standards updated.

