

# CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION COMPONENT PER US REQUIREMENTS**
2. **Certificate No:** FM17US0029U
3. **Component:** XD-ID100, XD-ID100win, XD-ID100H, XD-IDAC and XD-ID100Hwin. Universal Two-Compartments Instrument Housings.  
**(Type Reference and Name)**
4. **Name of Listing Company:** Limatherm SA
5. **Address of Listing Company:** Ul. Tarnowska 1  
34-600 Limanowa  
Poland
6. The examination and test results are recorded in confidential report number:  
  
3026118 dated 29<sup>th</sup> August 2003
7. FM Approvals LLC, certifies that the component described has been found to comply with the following Approval standards and other documents:  
  
FM Class 3600:2011, FM Class 3615:2006  
ANSI/ISA 60079-0:2013, ANSI/ISA 60079-1:2013, ANSI/ISA 60079-31:2013, ANSI/NEMA 250:2003,  
ANSI/IEC 60529:2004
8. The sign 'U' placed after the certificate number indicates that this certificate must not be mistaken for a certificate for equipment or a protective system. This certificate may only be used as the basis for the certification of equipment or a protective system. This certificate is issued to the manufacturer also intended to be the holder of the equipment certificate which includes this component.
9. This certificate relates to the design, examination and testing of the component specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the component as examined, tested and Approved.

## Certificate issued by:

J.E. Marquedant  
Manager, Electrical Systems

19 February 2017

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA  
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# SCHEDULE



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10. Component Ratings:

Explosionproof for Class I, Division 1, Groups A, B, C and D; Flameproof for Class I, Zone 1, AEx db IIC Gb; Dust-Ignitionproof for Class II/III, Division 1, Groups E, F and G and Protection by Enclosure for Zone 21 AEx tb IIC Db Hazardous (Classified) Locations, indoor/outdoor (Type 4X, IP66) for use in the United States with an ambient temperature rating of  $-40^{\circ}\text{C} \leq T_a \leq +100^{\circ}\text{C}$  ( $+85^{\circ}\text{C}$  for XD-ID100win, XD-IDAC and XD-ID100Hwin).

11. The marking of the component shall include:

Class I Division 1, Groups A, B, C, D; Type 4X, IP66

Class II, Division 1, Groups E, F, G, Class III, Division 1; Type 4X, IP66

Class I, Zone 1, AEx db IIC Gb; Type 4X, IP66

Zone 21 AEx tb IIC Db; Type 4X, IP66

$-40^{\circ}\text{C} \leq T_a \leq 100^{\circ}\text{C}^*$

\* Maximum ambient temperature rating derated to  $85^{\circ}\text{C}$  for XD-ID100win, XD-IDAC and XD-ID100Hwin Housings with window covers.

12. Description of Equipment:

**General** - The XD-ID100, XD-ID100win, XD-ID100H, XD-IDAC and XD-ID100Hwin universal two compartment instrument housings / multi-compartment enclosures are designed as explosionproof, flameproof, dust-ignitionproof and dust protection by enclosure.

**Construction** - The housings have one compartment intended for instrumentation and the other compartment intended for field wiring; each compartment includes a threaded cover. The instrumentation covers are either solid or window; the field wiring compartment cover is solid. Both the window and solid covers have a silicone rubber o-ring seal between the cover and body to prevent the ingress of dust and water. The window cover has a cemented joint between the glass window and cover. The window cover includes a glass lens, a retaining ring, and Sylgard 567 silicone cement. The covers and body are constructed of aluminum alloy. The housings with the window cover are rated for a maximum ambient temperature of  $85^{\circ}\text{C}$ . The instrumentation compartment has one opening that is either M20x1.5, M24x1.5, M25x1.5, M27x2,  $\frac{1}{2}$  - 14 NPT or  $\frac{3}{4}$  - 14 NPT. The field wiring compartment has two openings in the side of the body that are either M20x1.5, M24x1.5, M25x1.5,  $\frac{1}{2}$  - 14 NPT or  $\frac{3}{4}$  - 14 NPT.

**Ratings** - The XD-ID100, XD-ID100win, XD-ID100H, XD-IDAC and XD-ID100Hwin universal two compartment instrument housings / multi-compartment enclosures are rated for use in an ambient temperature range of  $-40^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$ . The housings with the window cover are rated for a maximum ambient temperature of  $+85^{\circ}\text{C}$ .

***XD-ID100, XD-ID100win, XD-ID100H, XD-IDAC\*\* and XD-ID100Hwin. Universal Two-Compartments Instrument Housings***

13. Schedule of Limitations:

\* Maximum ambient temperature rating derated to  $85^{\circ}\text{C}$  for XD-ID100win, XD-IDAC and XD-ID100Hwin Housings with window covers.

\*\* XD-IDAC Housing is not rated for AEx db or AEx tb Zone applications.

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# **SCHEDULE**



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**14. Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

**15. Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

**16. Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
29 <sup>th</sup> August 2003	Original Issue.
19 <sup>th</sup> February 2017	Supplement 2: Report Reference: 3060850 dated 19 <sup>th</sup> February 2017 Description of the Change: Addition of AEx db and AEx tb Zone applications to The XD-ID100, XD-ID100win, XD-ID100H and XD-ID100Hwin universal two compartment instrument housings. Update certificate to the new format for components.

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