



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX ETL 17.0008X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2019-11-19\)](#)
[Issue 0 \(2017-04-07\)](#)
Date of Issue: 2022-01-28
Applicant: **Westlock Controls Corporation**
280 Midland Avenue
Saddle Brook, NJ 07663
United States of America
Equipment: **Valve Position Monitors (2200, 2007, 9479, E2007, E9479, D280, D290, D281, D291 Series)**
Optional accessory:
Type of Protection: **Flameproof 'db' and Protection by Enclosure 'tb'**
Marking: Ex db IIB+H2 T* Gb
Ex tb IIIC T* Db IP 6X
-*C ≤ Ta ≤ +*C
*Dependent on configuration, see description/annex for details
IECEX ETL 17.0008X

Approved for issue on behalf of the IECEx
Certification Body:

Kevin J. Wolf

Position:

Certification Officer

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Intertek
3933 US Route 11 South
Cortland NY 13045-2995
United States of America

intertek



IECEX Certificate of Conformity

Certificate No.: **IECEX ETL 17.0008X**

Page 2 of 4

Date of issue: 2022-01-28

Issue No: 2

Manufacturer: **Westlock Controls Corporation**
280 Midland Avenue
Saddle Brook, NJ 07663
United States of America

Additional manufacturing locations: **Crane Fluid & Gas Systems (Suzhou) Co., Ltd.**
No. 1, Runsheng Road
SIP
Suzhou
Jiangsu 215126
China

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[US/ETL/ExTR17.0009/00](#)

[US/ETL/ExTR17.0009/01](#)

[US/ETL/ExTR17.0009/02](#)

Quality Assessment Reports:

[GB/FME/QAR22.0001/01](#)

[US/FMG/QAR08.0002/11](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX ETL 17.0008X**

Page 3 of 4

Date of issue: 2022-01-28

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The 2200, 2007, 9479, E2007, E9479, D280, D290, D281, or D291 series enclosure comprises of two parts, a cover and housing.

The cover has three variations, flat cover, standard beacon cover or a high cover to suit different applications. The enclosure can be constructed of either aluminum or stainless steel.

The housing can offer up to four of the following conduit or cable entries; M20 x 1.5p, M25 x 1.5p, 1/2"-14NPT or 3/4"-14 NPT for connection to an external power source via appropriate IECEx certified cable glands or conduit seals.

When using conduit, the enclosure must be sealed at the enclosure wall using a suitably certified conduit seal. All the valve position monitor provides two methods of end of travel indication by the means of mechanical switches, inductive proximity sensors, or proximity switches and an external visual indicator.

For applications that require position feedback, ancillary components such as a 4 20mA current signal transmitter or a resistive signal feedback can be installed.

The 2200, 2007, 9479, E2007, E9479, D280, D290, D281, or D291 product can be used with different network communication bus protocols. The series enclosure can also house various network modules.

Refer to Annex of the Certificate for tables detailing ambient ranges, temperature codes, and electrical ratings and additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Temperatures at the cable entry point can exceed 70°C and 80°C at the branching point. Selection of cable must be appropriate for the ambient temperature range.
- The certification applies to the enclosure without cable glands, only suitably approved flameproof cable glands may be used with an ingress protection rating of IP6X.
- When conduit is utilized, the conduit must be sealed in accordance with clause 13.2.2 of IEC 60079-1:2007 with a suitably approved conduit sealing device.
- All unused entries must be plugged with suitably approved flameproof blanking elements with an ingress protection rating of IP6X.
- The equipment is provided with a serial number label externally, if required by the end user Westlock Controls will supply an internal serial number label.
- No modifications must be made to the flamepaths of the unit without consultation of the drawings.
- Only suitably certified thread adapters must be used.
- Flamepath joints are not intended to be repaired.



IECEX Certificate of Conformity

Certificate No.: **IECEX ETL 17.0008X**

Page 4 of 4

Date of issue: 2022-01-28

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Update Standard from IEC 60079-0:2011 Ed.6 to IEC 60079-0:2017 Ed.7;
- Revised Product Description Section to match the ATEX Certificate ETL21ATEX0055X;
- Updated Drawing LB-040802UK from Rev. Level G to Rev. Level J;
- Updated Drawing MS-10766 from Rev. Level D to Rev. Level E;
- Added Drawing Tech-552-EN;
- Added Drawing Tech-546-EN;
- Added Drawing Tech-549-EN;
- Removed Drawings VCIOM 05080, TECH-546, TECH-385-EN, MS-10449, LB-11860-XXX, LB-11861-XXX, LB-11862-XXX, LB-11863-XXX, LB-11873-XXX, LB-11884-XXX;
- Added additional Manufacturer: Crane Fluid & Gas Systems (Suzhou) Co., Ltd.

Annex:

[SFT-IECEX-OP-19f - Annex for IECEx Certificate of Conformity_1.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ETL 17.0008X	Issue No. 2
Annex No. 2		

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
2200, 2007, 9479, E2007, E9479, D280, D290, D281, D291 ATEX / IECEX / UKEX Label Master	LB-040802UK	J	10/28/2021
Certification Drawing Global 2007, 9479, 2200, D280, D290, D281, D291 (ATEX / IECEX / UKEX / USA/CA)	MS-10766	E	11/8/2021
2200 Series ATEX, IECEX and UK CA Certified Installation and Operating Instructions	Tech-552-EN	B	--
Digital Epic D200 Models Operating Manual	Tech-546-EN	C	10/20/2021
Quickstart Installation and Operation Manual - XP Eliminator Rotary Models: E2007/E9479	Tech-498Q	A	10/21/19
Rotary Models 1040/9358/2004/9044/9468/ 5004/5044/360/366/2007/9479 Installation and Operating Instructions	Tech-549-EN	C	02/19/2021



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ETL 17.0008X	Issue No. 2
Annex No. 2		

Model Nomenclature / Electrical Ratings:

On the 2200 series the 4th digit detail the switch type utilized, similarly the 10th, 11th, and 12th digits on the equivalent series (2007 or 9479), similarly the 11th, 12th, and 13th digits on the equivalent series (E2007 or E9479) and similarly the 8th, 9th and 10th digits on the equivalent series (D260/D270/D261/D271) detail the switch type used. The following table details the most common switch/sensor types together with their electrical ratings.

Series Code / Switch Designation	Electrical Rating
22x5/2007/E2007XXXXXXXX M02 XXXXXXXX	Mechanical (SPDT): 15A -125 or 250 VAC, 6A - 24 VDC
22x3/2007/E2007XXXXXXXX M03 XXXXXXXXXXXXXX	GO Switch (SPDT): 4A - 120 VAC, 50 mA - 24 VDC
22x6/2007/E2007XXXXXXXX M04 XXXXXXXXXXXXXX D280/D290/D281/D291XXX M04 XXXXXXXXXXXXXX	Mechanical (DPDT): 10A - 125 or 250 VAC, 10A - 24 VDC
22x9/9479/E9479XXXXXXXX M06 XXXXXXXXXXXXXX D280/D290/D281/D291XXX M06 XXXXXXXXXXXXXX	Magnum (SPDT): 3A - 120 VAC or 2A - 24 VDC
22x7/9479/E9479XXXXXXXX M08 XXXXXXXXXXXXXX D280/D290/D281/D291XXX M08 XXXXXXXXXXXXXX	Inductive Proximity Sensors limited: 1A - 8 to 60 VDC or 2A - 20 to 250 VAC
D280/D290/D281/D291XXX M09 XXXXXXXXXXXXXX	Mechanical Gold Contact (SPDT): 6A - 24 VDC, 15A - 125 or 250VAC
9479/E9479XXXXXXXX M10 XXXXXXXXXXXXXX	Magnum (SPST): 3A - 120 VAC or 2A - 24 VDC
22x9*/9479/E9479XXXXXXXX M12 XXXXXXXXXXXXXX D280/D290/D281/D291XXX M12 XXXXXXXXXXXXXX	Magnum Rhodium Contacts (SPDT): 200mA - 120 VAC or 1A - 24 VDC
9479/E9479XXXXXXXX M13 XXXXXXXXXXXXXX	MagPAC Module (Two SPST Bifurcated Reeds): 750 mA - 120 VAC or 24 VDC
9479/E9479XXXXXXXX M14 XXXXXXXXXXXXXX	SPST Super Magnum Switches (Bifurcated Reed): 3A - 120 VAC, 2A - 24 VDC
9479/E9479XXXXXXXX M17 XXXXXXXXXX	Magnum (DPDT) Cobra: 3A - 120 VAC, 2,5A - 230 VAC, 2A - 24 VDC max.
9479/E9479XXXXXXXX M18 XXXXXXXXXXXXXX	DPDT Magnum Cobra, Rhodium Contacts: 200 mA - 120 VAC, 2A - 24 VDC

* Rhodium contact material indicated by 'special code'

The 2200, 2007, E2007, 9479 or E9479 series Valve Position Monitor has the option for position feedback by the means of a resistive signal (RS) or DS Transmitter non HART (DS).
The D280, D281, D290 or D291 series Valve Position Monitor Transmitter (HART) with option for end of travel switches.

- The RS Transmitter electrical ratings are – 1K Ohms (standard) or 5K or 10K Ohms (optional).
- The DS Transmitter electrical ratings are – current loop 4-20 mA @ 9 to 30 VDC.



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ETL 17.0008X	Issue No. 2
Annex No. 2		

Ambient Temperature Ranges:

Solenoid Option for Models 2200, E2007, E9479, D280 and D290 Ambient Range & Temperature Class					
Configuration		Temperature Code			
Power	O-Ring Material	T6	T5	T4	T3
1.80 W 0.85 W 0.5 W	EPDM**	-55°C to +42°C	-55°C to +57°C	-55°C to +60°C	-55°C to +60°C
	LT BUNA	-40°C to +42°C	-40°C to +52°C	-40°C to +52°C	-40°C to +52°C
	BUNA	-20°C to +42°C	-20°C to +57°C	-20°C to +60°C	-20°C to +60°C
	FKM	-20°C to +42°C	-20°C to +57°C	-20°C to +87°C	-20°C to +105°C
4 W	EPDM**	-55°C to +31°C	-55°C to +46°C	-55°C to +60°C	-55°C to +60°C
	LT BUNA	-40°C to +31°C	-40°C to +46°C	-40°C to +52°C	-40°C to +52°C
	BUNA	-20°C to +31°C	-20°C to +46°C	-20°C to +60°C	-20°C to +60°C
	FKM	-20°C to +31°C	-20°C to +46°C	-20°C to +76°C	-20°C to +105°C

** NOTE: This only applies if the item's enclosure is stainless steel. If the enclosure is Aluminum, then the ambient range can only be -50°C. This information is taken from IECEx SIR 09.044X / ATEX SIRA 09ATEX1094X for the Versa X(TAB) models with H-class coils.

The below table signifies the possible enclosure material and corresponding acceptable ambient temperature and T-code for the model series 2200, 2007, 9479, D281, and D291.

Aluminum Enclosure		
Series Code	Ambient Range	T Class
2200 / 2007 / 9479 / D281	-50°C to +60°C	T6 (80°C)
2200 / 2007 / 9479 / D281	-50°C to +75°C	T5 (95°C)
2200 / 2007 / 9479 / D281	-50°C to +110°C	T4 (130°C)
Stainless Steel Enclosure		
Series Code	Ambient Range	T Class
2200 / 2007 / 9479 / D291	-70°C to +60°C	T6 (80°C)
2200 / 2007 / 9479 / D291	-70°C to +75°C	T5 (95°C)
2200 / 2007 / 9479 / D291	-70°C to +110°C	T4 (130°C)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ETL 17.0008X	Issue No. 2
Annex No. 2		

The 2200, E2007, E9479, D280 or D290 series can also be fitted with up to two Ex d coils with the following possible electrical ratings.

Ratings	
Voltage	Power
5 to 300 VDC	0.50 W
	0.85 W
	1.80 W
	4 W
6 to 250 VAC	50 – 60 Hz, 0.50 VA
	50 – 60 Hz, 0.85 VA
	50 – 60 Hz, 1.80 VA
	50 – 60 Hz, 4 VA