

# EU-TYPE EXAMINATION CERTIFICATE

## Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- EU-Type Examination Certificate Number:** ETL21ATEX0055X      **Issue** 00
- Product:** Valve Position Monitors (2200, 2007, 9479, E2007, E9479, D280, D290, D281, D291 Series)
- Manufacturer:** Westlock Control Corporation
- Address:** 280 N Midland Ave  
Saddle Brook, NJ 07663-5708  
USA
- Manufacturer:** Crane Fluid & Gas Systems (Suzhou) Co., Ltd.
- Address:** No. 1, Runsheng Road  
SIP  
Suzhou  
Jiangsu  
215126  
China
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing Services NA Ltd., Notified Body number 2903 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the 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 of the Directive.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN 60079-1:2014 and EN 60079-31:2014 except in respect of those requirements referred to within item 14 of the Schedule.
- If the sign “X” is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- This EU-Type Examination 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:

II 2 G Ex db IIB+H2 T\* Gb



II 2 D Ex tb IIIC T\*°C Db IP 6X

-\*°C ≤ Ta ≤ +\*°C

\*Dependent on configuration, see description for details

**Certification Officer:**

Kevin J. Wolf

**Date:**

12 December 2021



## SCHEDULE:

EU-Type Examination Certificate Number: ETL21ATEX0055X Issue 00

### 13. Description of Equipment or Protective System

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.

The table below details the applicable ambient 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.

## SCHEDULE:

EU-Type Examination Certificate Number: ETL21ATEX0055X Issue 00

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)

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/E2007XXXXXXXXM02XXXXXXXX	Mechanical (SPDT): 15A -125 or 250 VAC, 6A - 24 VDC
22x3/2007/E2007XXXXXXXXM03XXXXXXXXXXXX	GO Switch (SPDT): 4A - 120 VAC, 50 mA - 24 VDC
22x6/2007/E2007XXXXXXXXM04XXXXXXXXXXXX D280/D290/D281/D291XXXM04XXXXXXXXXXXX	Mechanical (DPDT): 10A - 125 or 250 VAC, 10A - 24 VDC
22x9/9479/E9479XXXXXXXXM06XXXXXXXXXXXX D280/D290/D281/D291XXXM06XXXXXXXXXXXX	Magnum (SPDT): 3A - 120 VAC or 2A - 24 VDC
22x7/9479/E9479XXXXXXXXMXXXXXXXXXXXXXXXX D280/D290/D281/D291XXXM08XXXXXXXXXXXX	Inductive Proximity Sensors limited: 1A - 8 to 60 VDC or 2A - 20 to 250 VAC
D280/D290/D281/D291XXXM09XXXXXXXXXXXX	Mechanical Gold Contact (SPDT): 6A - 24 VDC, 15A - 125 or 250VAC
9479/E9479XXXXXXXXM10XXXXXXXXXXXX	Magnum (SPST): 3A - 120 VAC or 2A - 24 VDC
22x9*/9479/E9479XXXXXXXXM12XXXXXXXXXXXX D280/D290/D281/D291XXXM12XXXXXXXXXXXX	Magnum Rhodium Contacts (SPDT): 200mA - 120 VAC or 1A - 24 VDC
9479/E9479XXXXXXXXM13XXXXXXXXXXXX	MagPAC Module (Two SPST Bifurcated Reeds): 750 mA - 120 VAC or 24 VDC
9479/E9479XXXXXXXXM14XXXXXXXXXXXX	SPST Super Magnum Switches (Bifurcated Reed): 3A - 120 VAC, 2A - 24 VDC
9479/E9479XXXXXXXXM17XXXXXXXX	Magnum (DPDT) Cobra: 3A - 120 VAC, 2,5A - 230 VAC, 2A - 24 VDC max.
9479/E9479XXXXXXXXM18XXXXXXXXXXXX	DPDT Magnum Cobra, Rhodium Contacts: 200 mA - 120 VAC, 2A - 24 VDC

\* Rhodium contact material indicated by 'special code'

## SCHEDULE:

**EU-Type Examination Certificate Number: ETL21ATEX0055X Issue 00**

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.

The 2200, E2007, E9479, D280 or D290 series can also be fitted with up 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

### 14. Report Number

Intertek Report: 104784554CRT-001c Issue: 00 Dated: 02-November-2021

### 15. Special Conditions of Certification

(a). Special Conditions of Use

- 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.

## SCHEDULE:

EU-Type Examination Certificate Number: ETL21ATEX0055X Issue 00

(b). Conditions of Manufacture - Routine Tests

- None

### 16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 104784554CRT-001c Issue: 00 Dated: 02-November-2021.

### 17. Drawings and 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