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 17.0011X**

Certificate history:
Issue 0 (2017-04-07)

Status: **Current**

Issue No: 1

Date of Issue: 2024-12-05

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

Equipment: **D460, D470 Series Valve Position Monitor**

Optional accessory:

Type of Protection: **Ex db and Ex tb**

Marking: Ex db IIC T* Gb
Ex tb III C T* Db IP6X
*Dependent on configuration, see description below

IECEx ETL 17.0011X

Approved for issue on behalf of the IECEx Certification Body: **Todd L. Relyea**

Position: **Certification Officer**

Signature:
(for printed version)

Date:
(for printed version)

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

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

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

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 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/ExTR17.0012/00 US/ETL/ExTR17.0012/01

Quality Assessment Report:

US/FMG/QAR08.0002/14

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The D460 and D470 series valve position monitors are designed for use in valve positioning applications to give indication of the position of an associated control valve. Operating on an input voltage of 18 – 30 Vdc, the Type D460 and Type D470 Transmitters provide a 4 – 20 mA output proportional to the position of the valve being monitored. The Type D460 comprises of a cast aluminum enclosure whereas the D470 consists of an identical stainless steel enclosure. A threaded cover is secured in position by a jacking screw arrangement to prevent removal. Fitted within the enclosure is a printed circuit board incorporating terminal facilities for input and output wiring. A Hall effect sensor assembly is potted within a closed tubular stainless steel housing which is press fitted into a hole provided in the base of the enclosure. An integral cable from the sensor is connected to terminals provided on the printed circuit board. The enclosure can offer up to four M20 x 1.5p, M25 x 1.5p, 1/2"–14 NPT or 3/4"-14 NPT cable entries for the accommodation of suitably certified cable entry devices. An internal and external earth facility is provided. The D460/D470 is available with up to one solenoid valve (referred to as S.O.V.) which can be fitted to one of conduit entries A, B or D. T-Class is dependent on model and ambient range as detailed below;

T Class	Variation	
	Transmitter	Transmitter with SOV
T4/T130ºC	-60ºC to +110ºC	-60ºC to +85ºC
T5/T95ºC	-60ºC to +80ºC	-60ºC to +80ºC
T6/T80ºC	-60ºC to +65ºC	-60ºC to +65ºC

The D460/D470 series can also be fitted with up to one M32 Ex d coil with the following electrical ratings.

Coil Voltage	Electrical Rating
12VDC	12VDC (0.7W)
24VDC	24VDC (0.7W)
125VDC	125VDC (1W)
90-120VAC	90-120VAC (4VA)
220-240VAC	220-240VAC (4VA)
Others	Limited to 0.7W or 4VA

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 utilised it must be sealed in accordance with Clause 13.5.2 of IEC 60079-1:2014 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.
- Flamepath joints are not intended to be repaired.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Updated Standard IEC 60079-0:2011 Ed.6 to IEC 60079-0:2017 Ed.7.
- Updated Drawing No. LB-050601UK from Rev. Level D to E.
- Updated Drawing No. MS-10747 from Rev. Level A to B.
- Updated Drawing No. VCIOM-05084 from Rev. Level – to B.

Annex:

SFT-IECEx-OP-19f - Annex for IECEx Certificate of Conformity.pdf

Annex to IECEx Certificate of Conformity

Certificate No:	IECEx ETL 17.0011X	Issue No. 1
Annex No. 1		

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
*D460/D470 Digital Epic ATEX / IECEx Label Master	LB-050601UK	E	12/02/24
*Certification Drawing D460/D470 Digital Epic (ATEX & IECEx)	MS-10747	B	04/16/14
*Installation & Operation Instructions (Westlock D460/D470 Series)	VCIOM-05084	B	12/02/24

*Note: An * is included before the title of documents that are new or revised.*