



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 EMT 19.0011X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2020-02-27)

Status: **Current** Issue No: 1

Date of Issue: 2022-09-28

Applicant: **Imtex Controls Limited**
Unit 4
Tenth Avenue
Deeside Industrial Park
Flintshire CH5 2UA
United Kingdom

Equipment: **Type V & CA valve controller variants VA, CAA, and VO , CAO**

Optional accessory:

Type of Protection: **Intrinsic safety "ia" and "ib"**

Marking: Ex ia IIC T6...T4 Ga - Model VO, CAO
Ex ia IIIC T85°C ...T135 °C Db. - Model VO, CAO
Ex ia IIC T6...T4 Ga - Model VA, CAA
Ex ia IIIC T85°C ...T135 °C Db - Model VA, CAA

Tamb is variable see Annex

Approved for issue on behalf of the IECEx
Certification Body:

Stephen Winsor

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

Element Materials Technology
Unit 1 Pendle Place
Skelmersdale
West Lancashire
United Kingdom





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Manufacturer: **Imtex Controls Limited**
Unit 4
Tenth Avenue
Deeside Industrial Park
Flintshire CH5 2UA
United Kingdom

Manufacturing
locations:

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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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:

[GB/EMT/ExTR19.0015/00](#)

[GB/EMT/ExTR19.0015/01](#)

Quality Assessment Report:

[GB/SIR/QAR09.0002/10](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Type V & CA Controller provides high accuracy position feedback and comprehensive diagnostic and testing functionality for automated process valves.

The equipment is housed within a metallic enclosure which resides upon the top of a process valve. A range of different sensors and or switches may be installed within the enclosure of the equipment. There are 6 cable entry points at the base of the enclosure.

Two models of each of the Type V & CA Controller are available, the VA or VO and CAA or CAO variants respectively. The type V & type CA variants are identical but have their own respective markings.

The VA/CAA features an internal programmable control board and is suitable for EPL Gb, Zone 1 IIC and Zone 21 IIIC environments.

Enclosure material is constructed from stainless steel or die cast aluminium.

The VO/CAO has no internal programmable control board, only switches, sensors or transmitters and is suitable for EPL Ga, Zone 0 IIC and Zone 21 IIIC environments. Enclosure material is constructed from stainless steel only.

Cable glands shall be selected to be appropriate with the installation environment.

The equipment model breakdown is identified through one of the two nomenclatures and are fully described in the Annex to this certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Dielectric strength of insulation must be >500 Vac RMS between different cores of internal wiring, between all circuits and the metallic frame, and between separate intrinsically safe circuits.
2. Only suitable Ex approved IP 54 or greater rated cable glands, thread adapters and blanking plugs are permitted for use with the enclosure when installed in a hazardous environment.
3. The equipment shall be cleaned regularly with a damp or antistatic cloth to prevent a build up of dust on the equipment surfaces.
4. Antistatic hazard with non-metallic parts – the equipment shall only be cleaned with a damp or antistatic cloth.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Addition of an alternative part numbering compilation, an alternative variant name CA.

Annex:

[Annex to IECEx Certificate of Conformity IECEx EMT 19.0011X iss 1.pdf](#)



Element Materials Technology,
 Unit 1, Pendle Place,
 Skelmersdale,
 West Lancashire, WN8 9PN,
 United Kingdom

Annex to IECEx Certificate of Conformity

IECEx EMT 19.0011X issue No.: 1

“Special conditions for manufacture”
1. None

Routine Tests
1. None

Model part number breakdown.	
Part number nomenclature 1 refer to Drawing A190352-IS	
Feature code	Nomenclature
0	Model V or CA
1	Connected Solenoid I, O
2	Control Board Configuration I, Y
3	No of Additional Function Devices 0, 1, 2, 3, 4, 5, 6
4	Function 01, 14, 16, 17, 25, 40, 42, 43, 70
5	Enclosure S, L, 9
6	Conduit size Z, Y, X, W, V, U, T, S, R, Q, P, N, M, L, K, J
7	Output Drive S, N
8	Indicator R, B, E, Y, C, O
9	System Communication 0, 2
10	Control Board Power E, L, O
11	Feature Information 1XX, 3XX

Part number nomenclature 2 refer to Drawing A190352U-IS

Feature code	Nomenclature a a1 a2 a3 b cc d ee ff – g h ii j k l m – n n1 o p qq
a	Model V or CA
a1	Control card fitted A, I, O
a2	Solenoid to be Connected (into Control Board) I, O
a3	Control Board Configuration D, B, W
b	No of Primary function 0, 1, 2, 3, 4, 5, 6
cc	Primary Function 00, 14, 16, 17, 25, 30, 40, 42, 43, 45, 46, 47, 48, 49, 70, 71, 72, 73
d	No of Secondary function 0, 1, 2, 3, 4
ee	Secondary function 00, 14, 16, 17, 25, 30, 40, 42, 43, 45, 46, 47, 48, 49, 60, 70, 71, 72, 73
ff	Non-Standard Switch/Sensor Designator OO, 2 Digit Alpha number from register
-	-
g	Material A, L, S
h	Cover Size S, T, R
ii	Coating OO, 2 Digit Alpha number from register
j	Conduit Entries for Connection 4, 8, D, H, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z
k	Shaft N, S
l	Indicator R, B, E, Y, C, O
m	No of Extra/Spare Terminals 0, 2, 4, 6, 8, A, B, C, D
-	-
n	Communication Protocol 0, 2, 4, 7, 9, F
n1	Control Board Power E, L, O
o	Regional Certification/ Applicable labelling W
p	Hazardous Feature S, Z
qq	Special Feature OO, 2 Digit Alpha number from register

Example part number: VADD216000OO-ASOO2MR2-2E-WZOO

Table of Ambient temperature ranges			
Assembly Component/Function	Ambient temperature ranges for Unit (°C)		
	Minimum ambient (°C)	Maximum ambient T6 / T85°C	Maximum ambient T4 / T135°C
Base Exd Enclosure			
Model VO - No Control Board Fitted & No Intrinsically Safe Components Old Nomenclature - Function - Various New Nomenclature - Function - Various	-40	60	85
Non-I.S. Version of Control Board in Exd Enclosure			
Model VA- only control board fitted Old Nomenclature - Function 01 New Nomenclature - Function 00	-40	60	85
Intrinsically Safe Components			
Model VA - only control board fitted Old Nomenclature - Function 01 New Nomenclature - Function 00	-30	60	80
Model VA or VO - with volt-free contact switches (in line with Section 5.7 of 60079-11:2012) Old Nomenclature - Functions 14, 16, 17, 25, 40 New Nomenclature - Functions 14, 16, 17, 25, 30, 40, 73	-40	40	85
Model VA or VO - with proximity sensors (manufacturer: Hans Turck) Old Nomenclature - Functions 42, 43 New Nomenclature - Functions 42, 43, 47	Refer to Component Information in A190354 rev.E	50	70 (selected sensors only - see below)
Model VA or VO - with proximity sensors (manufacturer: Pepperl & Fuchs) Old Nomenclature - Functions 42, 43 New Nomenclature - Functions 42, 43, 45, 46, 48, 49	Refer to Component Information in A190354 rev.E	50	75

Model VA or VO - with transmitter (manufacturer: Zettlex) Old Nomenclature - Function 70 New Nomenclature - Function 70, 71, 70 (with 60 2nd Function)	<table border="1"> <tr> <td data-bbox="943 531 1101 562">-40</td> <td data-bbox="1101 531 1258 562">50</td> <td data-bbox="1258 531 1481 562">75</td> </tr> </table>	-40	50	75
-40	50	75		
Model VA or VO - with transmitter (manufacturer: PR Electronics) Old Nomenclature - Function 70 New Nomenclature - Function 72	<table border="1"> <tr> <td data-bbox="943 680 1101 711">-40</td> <td data-bbox="1101 680 1258 711">50</td> <td data-bbox="1258 680 1481 711">75</td> </tr> </table>	-40	50	75
-40	50	75		
Note: for models fitted with more than one Function Device, the T_{amb} would revert to worst case e.g. Combination of VA Model with control board and transmitter fitted, T_{amb} -30 °C to 50 °C for T6.				

<p>Tables of entity parameters</p>

1.0 - VA, CAA variant with only control board fitted

For the Type V enclosure using the Exi variant of the main control board, refer to document A190372 for the Intrinsically Safe parameters that relate to the control board. The equipment will be marked accordingly.

1.1 - VO, CAO variant with no control board fitted.

The VO Variant of the Type V unit which does not contain a Control Board.

It only includes switches, certified sensors or transmitters, refer to document A190354 for the Intrinsically Safe parameters. The equipment will be marked accordingly.

DUAL CERTIFIED COMPONENTS IECEx, UKEX and ATEX contain

- 1.1.1 Simple Apparatus Components
- 1.1.2 Hans Turck Sensors
- 1.1.3 Pepperl & Fuchs Sensors
- 1.1.4 Zettlex Transmitter

Manufacturer's Documents			
Title:	Drawing No.:	Rev. Level:	Date:
Type V & CA - Master Model Description Exi - Versions Only	A190352-IS	B	2022-06-08
Type V - Exi – Master Model Description	A190352U-IS	A	2022-06-08
TITLE PLATE IECEx/ATEX/UKCA Unit	A160225	I	2022-03-22
Installation, Operating & Maintenance Type V - IECEx/ATEX - I.S. Version (2 sheets)	A190379-V-IOM-003-IS	E	2022-03-22
Type V Controller – General Layout	J100479	D	2019-11-18
VA Assembly w/ 2x NJ2-V3-N (2 sheets)	VAII242SZSR2L3OO	A	2019-11-18
Type VO Controller w/ 4x Reed Switch (2 sheets)	VOOI425SZSR001SW	-	2019-11-18
Control Board Intrinsically Safe Information – Type VA and VO variants (4 sheets)	A190372	E	2022-02-04
Characteristics for Additional Electrical Equipment Integrated Into Type V Enclosure – Ambient Temperature and Intrinsically Safe Reference Document (23 sheets)	A190354	E	2022-08-09
TITLE PLATE IECEx/ATEX/UKCA Unit	A160225-CA	-	2022-06-08
IOM –CA-Exi-ATEX/UKCA	A190379-CA-IOM-003-IS	-	2022-03-22

Note: The symbol “ - ” indicates that this information was not available.



Attention is drawn to the operating and installation instructions which may contain useful information in relation to conditions of use.