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CONFORMITÉ EUROPÉENNE

## EU - TYPE EXAMINATION CERTIFICATE

2 **Product or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 2014/34/EU – Annex III**

3 EU - Type Examination Certificate No.: **TRAC13ATEX0005X (incorporating variations V1 to V7)**

4 Product: **Valve Controller, Type V and CA.**

5 Manufacturer: **Imtex Controls Limited**

6 Address: **Unit 4, Tenth Avenue, Deeside Industrial Park, Deeside, Flintshire,  
CH5 2UA, United Kingdom**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Element Materials Technology, Notified Body number 2812, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this 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 to the Directive. The examination and test results are recorded in the confidential reports **TRA-011757-33-00A, TRA-011757-33-01A, TRA-020980-33-00A, TRA-052327-33-00A, TRA-051976-32-00A & TRA-055505-33-00A**


9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN IEC 60079-0:2018      EN 60079-1:2014      EN 60079-11:2012  
EN 60079-31:2014**

Except in respect of those requirements listed at section 18 of the schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to specific conditions of use specified in the schedule to this certificate.

11 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 this product shall include the following:

 **II 2 G D**

**Ex db [ia] IIC T6 Gb Tamb = -\*°C to +60°C**

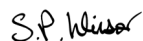
**Ex db [ia] IIC T4 Gb Tamb = -\*°C to +85°C**

**Ex tb IIIC T85°C Db IP6X Tamb = -\*°C to +60°C**

**Ex tb IIIC T135°C Db IP6X Tamb = -\*°C to +85°C**

\*See Special Condition for Manufacture No.3

This certificate and its schedules may only be reproduced in its entirety and without change. This certificate is issued in accordance with the Element Materials Technology Ex Certification Scheme.



S P Winsor, Certification Manager

Issue date: 2023-01-09

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- 14 TRAC13ATEX0005X (incorporating variations V1 to V7)

15 Description of Product

The Type V and CA Valve Controllers are designed to provide high accuracy feedback of valve position, with comprehensive diagnostics, for use with plant control systems and can be used in hazardous gas or dust atmospheres. The equipment is mounted to a valve via a mounting plate and mounting kit. A shaft on the bottom is physically linked to the valve and passes into the flameproof IP6X enclosure. This shaft can be linked internally to a variety of internal components - micro switches, position transmitters, reed switches, proximity sensors etc. depending on the end user requirements. This shaft can also be equipped to provide a physical 'open/closed' type of visual indication.

The proximity and position sensors are approved intrinsically safe components that can be fitted within the enclosure therefore with regard to gas atmospheres these are associated equipment. There are many options available for the internal components that can be fitted but the enclosure is the same for all models. Two faces contain the entry ports into the enclosure and can be supplied as M20, M25, 1/2 or 3/4 NPT threaded entries.

The equipment is identified through one of the two nomenclatures below:

Part number nomenclature 1 refer to Drawing A190352-EXD

Feature code	Nomenclature
0	Model V or CA
1	Connected Solenoid D, O
2	Control Board Configuration D, P
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, 1, 2, 3, 4, 5, 6, 7, 8, 9
10	Control Board Power C, E, L, P, O
11	Feature Information DXX, 1XX, 3XX

Example part number: VADD217SYSR2E-100

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**TRAC13ATEX0005X (incorporating variations V1 to V7)**

Part number nomenclature 2 refer to Drawing A190352U-EXD

<b>Feature code</b>	<b>Nomenclature a a1 a2 a3 b cc d ee ff – g h ii j k l m – n n1 o p qq</b>
a	Model V or CA
a1	Control card fitted A, I, O, S
a2	Solenoid to be Connected (into Control Board) D, O
a3	Control Board Configuration D, H, P, B, W,
b	No of Primary function 0, 1, 2, 3, 4, 5, 6
cc	Primary Function 00, 14, 16, 17, 25, 26, 30, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 70, 71, 72, 73, 74, 90, 91
d	No of Secondary function 0, 1, 2, 3, 4
ee	Secondary function 00, 14, 16, 17, 25, 26, 30, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 70, 71, 72, 73, 74, 90, 91
ff	Non-Standard Switch/Sensor Designator OO-Standard Function, 2 Digit Alpha number from register
-	-
g	Material A, L, S
h	Cover Size S, R
ii	Coating OO-Natural finish, 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, N, C, O, 1, 2, 3, 4, 5, 6
m	No of Extra/Spare Terminals 0, 2, 4, 6, 8, A, B, C, D
-	-
n	Communication Protocol 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, F
n1	Control Board Power C, E, L, P, O
o	Regional Certification/ Applicable labelling W
p	Hazardous Feature D, C
qq	Special Feature OO-No Feature, 2 Digit Alpha number from register

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

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Table of entity parameters		
Parameter	Proximity sensor	Transmitter
Ui	Replication of parameters listed on fitted approved Sensor certificate.	Replication of parameters listed on fitted approved Transmitter certificate.
li		
Pi		
Ci		
Li		

The temperature class, operating ambient temperature and intrinsic safety entity parameters Um, Ui, li, Pi, Ci, Li, Uo, Io, Po, Lo, Co are fully described in Drawing A190354.

**16 Test Report No. (as added for this issue of the certificate):** TRA-055505-33-00A

**17 Specific Conditions of Use**

1. The equipment shall not be subjected to a build-up of dust and is to be cleaned regularly to prevent a build-up of dust forming on the enclosure.
2. The intrinsically safe components shall be supplied by an ATEX approved barrier.



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

**18 Essential Health and Safety Requirements (Directive Annex II)**

The standards listed in section 9 of this certificate are no longer listed within the Official Journal and are therefore not harmonised. A gap analysis has been conducted by Element Materials Technology against the relevant, latest versions of the harmonised EN 60079 series standards and has confirmed continued compliance with the Essential Health and Safety Requirements. This analysis is detailed in report: TRA-055505-33-00A.

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

**19 Drawings and Documents**

The list of controlled technical documentation is given in Appendix A to this schedule.

**20 Routine Tests**

1. The Aluminium enclosures shall be subjected to a routine pressure test in accordance with IEC/EN 60079-1:2007, Clause 16.1 at a minimum pressure of 14.93 bar for at least 10 seconds. There shall be no permanent deformation of the joints, damage to the enclosure or leakage through the walls.

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**21 Specific Conditions for Manufacture**

1. The input parameters markings for the intrinsically safe components shall be determined from their respective certificate numbers depending upon whether they are required for IEC/ATEX.
2. Care should be taken to ensure that the minimum and maximum temperature information on the intrinsically safe components used within the Type V or CA valve controller is observed and satisfies the  $T_{amb}$  parameters and the T-class for the Type V or CA units.
3. Note that minimum ambient markings will depend on approved intrinsically safe components, if fitted, as will the parameters. Units will be marked accordingly at the point of manufacture in line with their individual intrinsically safe equipment approvals. However minimum permitted ambient in all cases is  $-40\text{ }^{\circ}\text{C}$ .

**22 Photographs**



**23 Details of Markings**

**Valvescan IP6 Valve Controller**  
ATEX CERTIFICATE NO: TRAC13ATEX0005X  
IECEx CERTIFICATE NO: IECEx TRC 13.0004X  
UKEX CERTIFICATE NO: EMA22UKEX0015X

Model: \_\_\_\_\_  
Serial: \_\_\_\_\_

Ex db (a) IIC T6 Gb Tamb = -  $^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  & Ex tb IIIC T85 $^{\circ}\text{C}$  Db IP6X  
Ex db (a) IIC T4 Gb Tamb = -  $^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  & Ex tb IIIC T135 $^{\circ}\text{C}$  Db IP6X

INTRINSICALLY SAFE COMPONENTS  
(connect to safe area via Certified Barrier):

**Ex** II 2 GD

**UK CA** XXXX **CE** XXXX

$U_i$	V	$I_i$	nF
$I_i$	mA	$C_i$	nF
$P_i$	W		

**CONSULT INSTRUCTIONS PRIOR TO INSTALLATION, OPERATION or MAINTENANCE**

WARNING: DO NOT OPEN WHEN ENERGISED, OR FOR 15 MIN AFTER DE-ENERGISING WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT.

WARNING: FOR  $T_{amb} +85^{\circ}\text{C}$ , CABLE GLANDS OR CONDUCTORS IN CONDUIT ENTRIES SHALL BE RATED  $+100^{\circ}\text{C}$  (MIN)

Warning: Electrostatic Hazard - See Instructions

**imtexcontrols**  
Deeside, Flintshire - UK  
www.imtex-controls.com

V - series.

**C-ALL Series IP6 Valve Controller**  
ATEX CERTIFICATE NO: TRAC13ATEX0005X  
IECEx CERTIFICATE NO: IECEx TRC 13.0004X  
UKEX CERTIFICATE NO: EMA22UKEX0015X  
MANUFACTURED BY: IMTEX CONTROLS LTD, DEESIDE, UK

Model: \_\_\_\_\_  
Serial: \_\_\_\_\_

Ex db (a) IIC T6 Gb Tamb = -  $^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  & Ex tb IIIC T85 $^{\circ}\text{C}$  Db IP6X  
Ex db (a) IIC T4 Gb Tamb = -  $^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  & Ex tb IIIC T135 $^{\circ}\text{C}$  Db IP6X

INTRINSICALLY SAFE COMPONENTS  
(connect to safe area via Certified Barrier):

**Ex** II 2 GD

**UK CA** XXXX **CE** XXXX

$U_i$	V	$I_i$	nF
$I_i$	mA	$C_i$	nF
$P_i$	W		

**CONSULT INSTRUCTIONS PRIOR TO INSTALLATION, OPERATION or MAINTENANCE**

WARNING: DO NOT OPEN WHEN ENERGISED, OR FOR 15 MIN AFTER DE-ENERGISING WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT.

WARNING: FOR  $T_{amb} +85^{\circ}\text{C}$ , CABLE GLANDS OR CONDUCTORS IN CONDUIT ENTRIES SHALL BE RATED  $+100^{\circ}\text{C}$  (MIN)

Warning: Electrostatic Hazard - See Instructions

**ConditionALL**  
Bergen - Norway  
www.conditionall.com

CA series,

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#### 24 Certificate History

Original certificate	2013-04-11	First issue.
Variation V1	2013-07-31	Add Trade agent TRAC13AXTEX0029X.
Variation V2	2014-12-22	Change of address and update of label.
Variation V3	2016-08-05	Addition of a new Aluminium enclosure, inclusion of 'ia' intrinsically safe and VPX models
Variation V4	2019-11-01	This certificate was originally issued by Notified Body number 0891 under Directive 2014/34/EU. The technical file has been transferred to Element Notified Body number 2812 without further assessment or evaluation.
Variation V5	2021-01-08	Amendment of part numbering compilation from Type VSD/VPX to Type V, in order to bring it into a common uniform format. Drawing updates to add more conduit entry interchangeability options. Trade agent TRAC13AXTEX0029X removed.
Variation V6	2021-03-19	Addition of a new model variant 'CA series'.
Variation V7	2023-01-09	Add an alternative part numbering compilation. Gap analysis to cover the latest versions of EN IEC 60079-0, EN 60079-1 and EN 60079-31. Change the marking code from Ex 'd' to Ex 'db'

This certificate is a consolidated certificate and reflects the latest status of the certification, including all variations and amendments.

#### 25 Notes to CE marking

In respect of CE Marking, Element Materials Technology accepts no responsibility for the compliance of the product against all applicable Directives in all applications.

#### 26 Notes to this certificate

Element Materials Technology certification reference: ERO038397P21 (GU-IMTQ-0007).

Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.

Notified Body number 2812 is the designation for Element Materials Technology Rotterdam BV.

In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variation certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

#### 27 Conditions for the validity of this certificate

This certificate remains valid for so long as:

- (i) The equipment listed in section 4 is manufactured in accordance with the documents listed in Appendix A of this certificate.
- (ii) The standards listed in section 9 of this certificate continue to satisfy the Essential Health and Safety Requirements of Annex II of Directive 2014/34/EU and the generally acknowledged state of the art (e.g. as determined by the publishers of those standards).



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**APPENDIX A - TECHNICAL DOCUMENTS**

<b>Title:</b>	<b>Drawing No.:</b>	<b>Rev. Level:</b>	<b>Date:</b>
External Earthing Clamp	A100353	-	2008-09-22
Type V - Master Model Description Ex d [ia] Variant	A190352-EXD	B	2021-02-05
Type V - Exd - Master Model Description	A190352U-EXD	First	2022-02-03
Characteristics for Additional Electrical Equipment Integrated Into Type V Enclosure – Ambient Temperature and Intrinsically Safe Reference Document (23 pages)	A190354	E	2022-08-09
TITLE PLATE IECEX/ATEX/UKCA Unit	A160190	H	2022-03-21
TITLE PLATE IECEX/ATEX/UKCA Unit	A160249	A	2022-03-18
Type V Unit – Housing	C100190	H	2020-10-09
Type V StSt Cover	C110150	D	2020-10-09
Type V General Layout	J100411	D	2020-10-09
Type V Shaft Assembly	J100418	B	2020-10-09
Flamepath Gaps in Type V Assembly	J100419	C	2020-10-22
Volume Calculation for Type V Assembly	J100420	B	2020-10-09
Type V General Layout	J100421	B	2020-10-09
Type V - Exd Requirements	J100422	B	2020-10-09
Installation, Operating and Maintenance, Type V - IECEX/ATEX (3 pages)	V-IOM-004	B	2022-03-18
Type VS Unit – w/ 2 x V3 Mech	VSDD216SZSR0-IOO	-	2020-10-09
IVC/IDC/IHP24 Identification Format	A190281-VAL	C	2020-10-22
Type V Unit - Housing - Al	C100200	A	2020-10-22
Type V Cover – Al	C110151	A	2020-10-22
Installation, Operating and Maintenance, Type CA - IECEX/ATEX (3 pages)	CA-IOM-004	A	2022-03-18

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