



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **CSANe 22ATEX1096X** Issue: **1**

4 Equipment: **Contrec EX510**

5 Applicant: **Contrec Ltd**

6 Address: **Unit G8,
Lowfields Business Park,
Elland,
HX5 9HB
United Kingdom**

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

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment 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 listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN 60079-1:2014

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2G

Ex db IIB T6 Gb

-20°C ≤ Ta ≤ 60°C (DC version and AC without heater)

-40°C ≤ Ta ≤ 60°C (AC version with heater)

Signed:

Michelle Halliwell

Title: Director of Operations



Project Number 80230211

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

CSANe 22ATEX1096X
Issue 1

13 DESCRIPTION OF EQUIPMENT

The Contrec EX510 is an operator interface for industrial electronic process monitoring and control applications.

The flameproof enclosure of the Contrec EX510 is constructed from Stainless Steel 316, and, depending on the application, houses either the Contrec 400 or 500 Series electronics. The Trac 50 is a DC only version of the 515 with a D-sub or terminal block wire to PCB back panel and the Load Pro is a version of the 515 with a large display.

Connection to the equipment is via metric or NPT entries, which are threaded in the base of the enclosure. An O-ring located in a dedicated groove on the body of the enclosure provides environmental sealing of the equipment. All special fasteners are Grade A4-80.

The door of the equipment features an integrated keyboard for the user to input data into the equipment. A display window located above the keyboard provides the user interface. An aluminium fascia with a non-metallic coating is installed on top of the keyboard and window, the fascia is present for cosmetic purposes only.

The equipment is available in AC and DC forms. Optionally, AC models with integral heaters are available which enable the equipment to operate at reduced ambient temperatures.

The equipment has been separately tested and assessed against the relevant requirements of IEC 60529 and it is considered to meet the criteria for IPX6.

Model Code Table

Model 424/425

42X	.	X	X	X	X
1	.	2	3	4	5

Code	Feature	Options	Description
1	42X	424 425	Batch Controller Flow Computer
2	Enclosure	3 4 5 6 7 8	EX510 Enclosure with M25 Entries EX510 Enclosure with 1" NPT Entries EX510 Enclosure with M25 Entries & 240 VAC Heater EX510 Enclosure, 1" NPT Entries & 120 VAC Heater EX510 Enclosure, M25 Entries & 120 VAC Heater EX510 Enclosure, 1" NPT Entries & 240 VAC Heater
3	Output	0 1	Basic 4-20 mA
4	PSU	U D	Universal (110 – 240 VAC, 50-60 Hz & 13.-28.5 VDC) DC only (12-28 VDC)
5	Conformal Coating	C	Conformally Coated

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SCHEDULE

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**CSANe 22ATEX1096X
Issue 1**

Model 515

515	.	X	X	X	X	X	X
1	.	2	3	4	5	6	7

Code	Feature	Options	Description
1	515	515	515 Series
2	Enclosure	3 4 5 6 7 8	EX510 Enclosure with M25 Entries EX510 Enclosure with 1" NPT Entries EX510 Enclosure with M25 Entries & 240 VAC Heater EX510 Enclosure, 1" NPT Entries & 120 VAC Heater EX510 Enclosure with M25 Entries & 120 VAC Heater EX510 Enclosure, 1" NPT Entries & 240 VAC Heater
3	Output	0 1 2	Basic Advanced Option including RS485 Advanced Option including Ethernet
4	Relay Type	1 2 3	4 x Electromechanical Relays 2 x Electromechanical Relays, 2 x Solid State Relays 4 x Solid State Relays
5	PSU	U D	Universal (110 – 240 VAC, 50-60 Hz & 13.-28.5 VDC) DC only (12-28 VDC)
6	Display	S	Standard Display
7	Conformal Coating	C	Conformally Coated

Model 'Load Pro'

XXXX	.	X	X	X	X	X
1	.	2	3	4	5	6

Code	Feature	Options	Description
1	Software	LPxx	xx denotes software version, not relevant to certification
2	Enclosure	3 4	EX510 Enclosure with M25 Entries EX510 Enclosure with 1" NPT Entries
3	Output	0 1 2	Basic Advanced Option including RS485 Advanced Option including Ethernet
4	Relay Type	1 2 3	4 x Electromechanical Relays 2 x Electromechanical Relays, 2 x Solid State Relays 4 x Solid State Relays
5	Heater	N 1 2	No Heater 120 VAC Heater 240 VAC Heater
6	ID Type	P R	PIN RFID Reader

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

CSANe 22ATEX1096X
Issue 1

Model 'Trac-50'

TRAC50	.	X	X
1	.	2	3

Code	Feature	Options	Description
1	Model	TRAC50	TRAC-50 Series
2	Enclosure	3 4	EX510 Enclosure with M25 Entries EX510 Enclosure with 1" NPT Entries
3	Terminal Connection Type	1 2	Pluggable Terminal Block (Spring Loaded) Crimp Style D Sub Connections

Variation 1 – This variation introduced the following changes:

i. To change the company address as follows:

From: Riverside Canal Road Sowerby Bridge West Yorkshire HX6 2AY United Kingdom	To: Unit G8, Lowfields Business Park, Elland, HX5 9HB United Kingdom
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14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	12 October 2023	R80117163A	The release of the prime certificate.
1	19 December 2024	R80230211A	The introduction of Variation 1.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 The equipment utilises A4-80 fasteners, if these are changed, they shall only be replaced by A4-80 fasteners.
- 15.2 This equipment shall only be installed in locations where risk of impact to the window is low.
- 15.3 Verification of the flameproof joints of this equipment requires specialist equipment. Therefore, they shall not be repaired by the user.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

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17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 A routine overpressure test shall be carried out on each EX510 enclosure at ≥ 16.5 bar for a period of ≥ 10 seconds. There shall be no permanent damage or deformation to the enclosure and no signs of leakage through the cemented window.

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Certificate Annexe



Certificate Number: CSANe 22ATEX1096X

Equipment: Contrec EX510

Applicant: Contrec Ltd

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
EX510-048	1 to 1	1.1	03 May 23	EX510 Battery Protection - 515 and Load Pro
EX510-049	1 to 1	1.1	03 May 23	EX510 Battery Protection - TRAC50
EX510-050	1 to 1	1.1	03 May 23	EX510 Battery Protection - 424, 425
EX510-023	1 to 1	1.7	18 Jul 23	Marking Labels for EX510 Enclosure Assemblies
EX510-069	Page 1	5.2	12 Sep 23	EX510 Enclosure Safety Critical Drawings
EX510-069	Page 2	5.2	04 Jul 23	EX510 Enclosure Safety Critical Drawings
EX510-069	Page 3	5.2	17 Aug 23	EX510 Enclosure Safety Critical Drawings
EX510-070	1 to 1	1.0	03 May 23	EX510 - Wiring
EX510-072	1 to 1	3.3	12 Sep 23	EX510 Window cement assembly
EX510-073	Page 1	3.3	12 Sep 23	EX510 - General Assembly
EX510-073	Page 2	3.3	03 May 23	EX510 - General Assembly

Issue 1

Drawing	Sheets	Rev.	Date (Stamp)	Title
EX510-023	1 to 1	1.7	18 Jul 23	Marking Labels for EX510 Enclosure Assemblies

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