



UNITED KINGDOM CONFORMITY ASSESSMENT

1 UK TYPE EXAMINATION CERTIFICATE

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 Certificate Number: **CSAE 23UKEX1012X** Issue: **1**

4 Product: **Contrec EX510**

5 Manufacturer: **Contrec Ltd**

6 Address: **Unit G8,
Lowfields Business Park,
Elland,
HX5 9HB
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 CSA Group Testing UK Limited, Approved Body number 0518, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations. 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 has been assured by compliance with:

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

Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

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

11 This UK TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall be in accordance with Regulation 41 and 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)

Name: Michelle Halliwell
Title: Director of Operations



SCHEDULE

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13 DESCRIPTION OF PRODUCT

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

Model 515

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





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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

Model 'Trac-50'

TRAC50	.	X	X
1	.	2	3

Code	Feature	Options	Description
1	Model	TRAC50	TRAC-50 Series



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

Variation 1 - This variation introduced the following changes:

i. To change the company address as follows:

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

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 (REGULATIONS SCHEDULE 1)

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

17 PRODUCTION CONTROL

17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders

17.2 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.



Certificate Annexe

Certificate Number: CSAE 23UKEX1012X
Product: Contrec EX510
Manufacturer: 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 Nov 24	Marking Labels for EX510 Enclosure Assemblies

