



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 CSAE 22.0049X** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 1 [Issue 0 \(2023-10-12\)](#)
Date of Issue: 2024-12-19
Applicant: **Contrec Ltd**
Unit G8
Lowfields Business Park
Elland HX5 9HB
United Kingdom
Equipment: **Contrec EX510**
Optional accessory:
Type of Protection: **Flameproof "db"**
Marking: **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)

Approved for issue on behalf of the IECEx
Certification Body:

Michelle Halliwell

Position:

Director Operations, UK & Industrial Europe

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:

CSA Group Testing UK Ltd
Unit 6, Hawarden Industrial Park
Hawarden, Deeside CH5 3US
United Kingdom





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Date of issue: 2024-12-19

Issue No: 1

Manufacturer: **Contrec Ltd**
Unit G8
Lowfields Business Park
Elland HX5 9HB
United Kingdom

Manufacturing locations: **Contrec Ltd**
Unit G8
Lowfields Business Park
Elland HX5 9HB
United Kingdom

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

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/CSAE/ExTR23.0073/00](#)

[GB/CSAE/ExTR24.0057/00](#)

Quality Assessment Report:

[GB/SIR/QAR15.0002/07](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

For model codes see Annexe

Conditions Of Manufacture

The Manufacturer shall comply with the following:

1. 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.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

This issue, Issue 1, recognises the following changes:

1. To change the company address to Unit G8, Lowfields Business Park, Elland, HX5 9HB, United Kingdom.

Annex:

[IECEX CSAE 22.0049X Annexe Issue 1.pdf](#)

Annexe to: IECEx CSAE 22.0049X Issue 1

Applicant: Contrec Ltd

Apparatus: Contrec EX510



EQUIPMENT (continued)

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

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

Annexe to: IECEx CSAE 22.0049X Issue 1

Applicant: Contrec Ltd

Apparatus: Contrec EX510



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
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