

1 EC CERTIFICATE OF CONFORMITY

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

3 Certificate Number: **ABTECH19ATEX4159X**

4 Equipment: **CR510-Ex**

5 Manufacturer: **Abtech Limited**

6 Address: **Newhall Road, Lower Don Valley, Sheffield, S9 2QJ**

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

8 Abtech Limited as the manufacturer of the equipment identified in 4 above certifies that it has been tested and 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 of the Directive.

The examination and test results are recorded in confidential report number R057768/R0.

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:

EN60079-0:2018, EN 60079-15:2010, EN60079-7:2015, EN60079-11:2012

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This Certificate of Conformity 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 3 GD Ex ic Gc IIC T4 Gc (-20°C ≤ Tamb ≤ 60°C)
Ex tc IIIC T85°C Dc

This certificate may only be reproduced in its entirety, without any change, schedule included.



M. Lancashire
Managing Director
Abtech Limited

Abtech Limited
Newhall Road,
Lower Don Valley
Sheffield,
South Yorkshire,
S9 2QJ, UK

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SCHEDULE

14

Certificate Number: ABTECH19ATEX4159X

15 Description of Equipment

The CR510-Ex unit is housed in an Abtech SX4 stainless steel enclosure with dimensions 372 x 510 x 140mm, Exe component certified and having certificate number CML15ATEX3078U and fitted with a toughened glass window to the door.

Internally it comprises an LCD Display, membrane keyboard, RFID head, motherboard and 2 status lamps. Exe certified terminals are provided for field connections.

The following parameters are applicable:

J5 Pins 1,2, 3 and 4		J1 and J2	
Ui	= 19.34 V	Uo	= 29.4 V
Uo	= 1.2 V	Io	= 66.4 mA
Ii	= 254 mA	Po	= 262 mW
Pi	= 1.2 W	Co	= 71 nF
Ci	= 1.2nF	Lo/Ro	= 135 μH/Ω
Li	= 0	Ci	= 0
		Li	= 0

The enclosure may be fitted with removable gland plates to any or all of the four sides.

Cable entries may be made in any side or rear face of the enclosure, including removable gland plates (if fitted)

Optionally, a larger enclosure than stated above may be used. A smaller enclosure is not permitted.

16 Test Report Number: R057768/R0

17 Special conditions for safe use

1. Cable entry and stopping devices which meet the requirements of EN 60079-15 must be used.

18 Essential Health and Safety requirements

All relevant health and safety requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
EPIC-POB-07-046	01	0	29.11.2019	CR510-Ex Enclosure Component Layout
EPIC-POB-07-049	01	0	30.11.2019	CR510-Ex Enclosure Dimensions
ABT35139	01	A	23.01.2019	Certification Label