

# EU-Type Examination Certificate



1. **EU-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**
3. **EU-Type Examination Certificate Number:** ITS11ATEX27323 Issue 1
4. **Product:** MTB-700 B.D.I. Alarm Monitor
5. **Manufacturer:** Continental Disc Corporation
6. **Address:** 3160 West Heartland Drive  
Liberty, MO 64068  
USA
7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the 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.  
  
In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificate 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. New issues of such EC-Type Examination Certificates, and Supplementary Certificates to such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.  
  
The examination and test results are recorded in confidential Intertek Report Ref 11051417A Issue 1 dated July 2011 and Intertek Report Ref G102653778 dated August 2016.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2009, EN 60079-11:2007 and EN 61241-11:2006 except in respect of those requirements referred to at item 16 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 Safe 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 the product shall include the following:



II (1) G [Ex ia Ga] IIC  
II (1) D [Ex ia Da] IIIC  
-20°C ≤ Ta ≤ +45°C

A T Austin  
Certification Officer  
15 August 2016

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CM14 5NQ.

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## SCHEDULE

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### 13. Description of Equipment or Protective System

The Continental Disc Corporation MTB-700 B.D.I. Alarm Monitor consists of a GRP enclosure for location in a non-hazardous location, housing apparatus to limit to an intrinsically safe level the transfer of energy between unspecified non-hazardous area apparatus and hazardous area apparatus.

The MTB-700 consists of unspecified electrical circuits and intrinsically safe certified MTL5516C Switch-operated relay(s), which may be supplied from a 24 V dc or 120 V ac or 240 V ac.

The MTB-700 Alarm Monitor may be one of the following types:

Two / Four Channels (M2S / M4S) or Two / Four Channels with annunciator (M2A / M4A)

For four channels, two MTL5516C switch operated relay, EC Type Examination Certificate number Baseefa07ATEX0211 may be fitted whereas for two channels, one MTL5516C switch-operated relay may be fitted.

Intrinsic safety is assured by use of intrinsically safe certified interface devices and infallible segregation

IS Parameters:

U<sub>o</sub> = 10.5 V dc  
I<sub>o</sub> = 14 mA  
P<sub>o</sub> = 37 mW  
C<sub>i</sub> = 0  
L<sub>i</sub> = 0

Gas Group	C <sub>o</sub> μF	L <sub>o</sub> mH	Lo/Ro μH/ohm
IIC	2.41	175	967
IIB	16.8	680	1333
IIA	75	1000	1333
Group III	16.8	680	1333

### 14. Report Number

Intertek Report Ref 11051417A Issue 1 dated July 2011

Intertek Report Ref G102653778 dated August 2016

### 15. Special Conditions of Certification

(a). Specific Conditions of Safe Use  
None

(b). Conditions of Manufacture - Routine Tests  
None



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Valued Quality. Delivered.

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### 16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report Ref 11051417A Issue 1 dated July 2011 and Intertek Report Ref G102653778 dated August 2016.

### 17. Drawings and Documents

Drawing no	Title	REV	Date
M2S-0000-V024	General Assembly – Two Channel 24V DC	G	05/11/2011
M2S-0000-V120	General Assembly – Two Channel 120V AC	H	05/11/2011
M2S-0000-V240	General Assembly – Two Channel 240V AC	G	05/11/2011
M2A-0000-V024	General Assembly – Two Channel 24V DC with Annunciator	J	05/11/2011
M2A-0000-V120	General Assembly – Two Channel 120V DC with Annunciator	J	05/11/2011
M2A-0000-V240	General Assembly – Two Channel 240V DC with Annunciator	H	05/11/2011
M4S-0000-V024	General Assembly – Four Channel 24V DC	G	05/11/2011
M4S-0000-V120	General Assembly – Four Channel 120V AC	H	05/11/2011
M4S-0000-V240	General Assembly – Four Channel 240V AC	G	05/11/2011
M4A-0000-V024	General Assembly – Four Channel 24V AC with Annunciator	H	05/11/2011
M4A-0000-V120	General Assembly – Four Channel 120V DC with Annunciator	J	05/11/2011
M4A-0000-V240	General Assembly – Four Channel 240V DC with Annunciator	H	05/11/2011
513-0001-00	24V DC Barrier Assembly	C	05/11/2011
513-0004-00	120/240V AC Barrier Assembly	E	05/11/2011
153-0001-33	Front Overlay for Four/Two Channel (M4S/M2S)	G	05/11/2011
153-0002-33	Front Overlay for Four/Two Channel with Annunciator (M4A/M2A)	H	05/11/2011
219-0000-00 Sheet 1 of 3	Four Channel Power Supply Board Assembly Schematic and PCB Artwork	H	05/11/2011
219-0000-00 Sheet 2 of 3	Four Channel Power Supply Board Assembly Schematic and PCB Artwork	H	05/11/2011
219-0000-00 Sheet 3 of 3	Four Channel Power Supply Board Assembly Schematic and PCB Artwork	H	05/11/2011

