



Intertek



1. **EC-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. EC-Type Examination Certificate Number: **ITS11ATEX27323**

4. Equipment or Protective System: **MTB-700 B.D.I. Alarm Monitor**

5. Manufacturer: **Continental Disc Corporation**

6. Address: **3160 West Heartland Drive
Liberty, MO 64068
USA**

7. This equipment or protective system 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 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Intertek Report Ref 11051417A Issue 1 dated July 2011.

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 18 of the Schedule.

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.

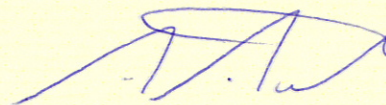
11. This EC Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system 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
20 July 2011

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977
<http://www.intertek.com>
Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

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13. SCHEDULE

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS11ATEX27323

15. 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 MTL5018 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 MTL5018 switch operated relay, EC Type Examination Certificate number BAS01ATEX7147 (DC Powered version) or Baseefa02ATEX0155 (AC Powered version), may be fitted where as for two channels, one MTL5018 switch-operated relay may be fitted.

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

IS Parameters:

Uo = 10.5 V dc
Io = 14 mA
Po = 37 mW
Ci = 0
Li = 0

Gas Group	Co μ F	Lo mH	Lo/Ro μ H/ohm
IIC	2.41	175	967
IIB	16.8	680	1333
IIA	75	1000	1333
Group III	16.8	680	1333

16. REPORT NUMBER

Intertek Report Ref 11051417A Issue 1 dated July 2011.

17. SPECIAL CONDITIONS FOR SAFE USE

None

18. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (EHSR'S)

The relevant EHSR's have been identified and assessed in Intertek Report Ref 11051417A Issue 1 dated July 2011.

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19. DRAWINGS

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

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