

# EU-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive  
2014/34/EU

- EU-Type Examination Certificate Number:** ITS13ATEX17782X      **Issue 03**
- Product:** CT Breather/Drain
- Manufacturer:** Eaton Electrical Systems Ltd trading as Raxton or Redapt or Capri
- Address:** Kingsway South, Westgate, Aldridge, West Midlands, WS9 8FS
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 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 of the Directive.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013, EN 60079-1:2007, EN 60079-7:2007 and EN 60079-31:2009 except in respect of those requirements referred to within item 14 of the Schedule.
- If the sign "X" is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- 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.
- The marking of the product shall include the following:

II 2 GD / I M2

Ex d I/IIC Mb/Gb



Ex e I/IIC Mb/Gb

Ex tb IIIC Db IP6X

For ambient temperature see Schedule 13

**Certification Officer:** \_\_\_\_\_

P. Moss

**Date:** \_\_\_\_\_

14th December 2020

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## SCHEDULE:

EU-Type Examination Certificate Number: ITS13ATEX17782X Issue 03

### 11. Description of Equipment or Protective System

The CT Breather/ Drains are for venting / draining of Ex d or e enclosures up to 190 litres in volume.

The CT Breather / Drains are designed to allow moisture emission from either Flameproof Ex d or Increased Safety Ex e enclosures. Each device comprises of either a brass or a stainless steel body with an M20, M25, ½" NPT or ¾" NPT entry thread. The body is machined such that a dust/ moisture seal, manufactured from sintered copper/ bronze alloy which can be optionally nickel plated.

At their point of mounting, these devices are approved for use at the following temperatures dependant on the type of o-ring fitted to suit the application:

O-Ring Material	Limiting Temperature
Nitrile	-30°C to +80°C
EPDM	-50°C to +100°C
Neoprene	-40°C to +80°C
Viton	-20°C to +180°C
Silicone	-60°C to +180°C
Flurosilicone	-60°C to +130°C

The breather drains do not dissipate any energy other than the expulsion of heated gas in the event of an internal explosion. For flameproof applications a temperature rise of 26.8K was measured on the surface of the element up to and including the reference pressure volume of 190 litres. For use in Acetylene atmospheres further testing is required to confirm the value. This value is to be taken into account when determining the Temperature class of the equipment to which the breather is fitted. For Ex e applications the temperature class will be dependent on the enclosure into which it is installed

### 12. Report Number

Intertek Report: G101077972 Issue: 001 Dated: August 2013

### 13. Specific Conditions of Certification

#### (a). Special Conditions of Use

- The interfaces between the Breather/ Drains and associated enclosures cannot be defined. Therefore, it is the user's responsibility to ensure that the appropriate ingress protection level is maintained at these interfaces.
- The reference pressure is limited to 4000 kPa (40 Bar) maximum
- These devices shall not be used with enclosures with a volume greater than 190 litres

#### (b). Conditions of Manufacture - Routine Tests

None

## SCHEDULE:

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

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: G101077972 Issue: 001 Dated: August 2013

### 15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Type CT Series	836A	2	17/07/2013
Ex d Breather Sinter	99-D-12	1	07/10/2008
Technical Datasheet – Breather/ Drain Plug – Type CT	D/606	4	Oct 2014

### 16. Details of Certificate changes Issue 1

Issue 1: Intertek Project G101077972 dated August 2013 - ITS13ATEX17782X replaces ITS13ATEX17782U which was created for the CT breathers as components.

Issue 2: Intertek Project G101806462 dated November 2014 – To remove the restriction on the breathers mounting position

Issue 3 (This certificate): Intertek Reference G104109849 - Update to EU Certification format and change of legal entity to Eaton Electrical system Ltd trading as Raxton / Redapt