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Epsilon

1 EC - Type Examination Certificate

2 Equipment intended for use in potentially explosive atmospheres

3 Certificate Number: EPSILON 08 ATEX 2392X

4 Equipment: Perseus Ex d Switch

5 Manufacturer: Pyropress Engineering Company Ltd

6 Address: Bell Close, Newnham Industrial Estate
Plympton, Plymouth
Devon PL7 4JH. UK

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

8 Epsilon, Notified Body number 1712 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 design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the directive

The examination and test results are recorded in confidential reports: RETS(A)2122/A/1, 2, 3 & 4.

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2006 EN 60079-1:2007 EN 61241-0:2006 EN 61241-1:2004

10 If the sign "X" is placed after the certificate number, it indicates that the equipment 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 the certificate.

12 The marking of the equipment shall include the following:

 II 2 GD Ex d IIC T5* or T6* (*see schedule)

Ex tD A21 IP67 T115°C Tamb -50°C to +74°C

On behalf of Epsilon

S Clarke
Certification Manager

Date: 26 March 2008



Certificate 08 ATEX 2392X

This certificate may only be reproduced in its entirety and without any change, schedule included.
The certificate is only valid when it carries an original signature and holographic security label.
For help or assistance relating to this certificate, contact cs@epsilonex.com.



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13 **Schedule**

14 Certificate Number: EPSILON 08 ATEX 2392X

15 Description of Equipment or protective system

The Perseus switch range is used to sense changes in temperature, pressure, level and flow via mechanical actuators.

A generic two-chamber enclosure (139 x 67 x 62) mm is utilised for all applications, this is manufactured from aluminium LM25TF or material of greater tensile strength with less than 6% magnesium by weight.

The lower chamber houses the operating rod and associated mechanical connection facilities.

The operating rod and threaded M32 'adjuster screw' form a cylindrical flame path with the threaded feed through device screwed into the enclosure forming a screwed flame path.

The upper chamber contains the electrical connection facilities and PCB.

The upper chamber has an access opening which has an M52 x 1 threaded flame path.

The cable entry point has an M20 x 1.5 threaded (or NPT equivalent) flame path for fitment of a suitably certified cable entry device. Both internal and external earthing points are provided.

Ambient range (Gas)

T6 -50°C to + 74°C

T5 -50°C to + 89°C

16 Descriptive Documents

16.1 Reports: RETS(A)2122/A/1, 2, 3 & 4

16.2 Drawings:

Number	Date	Issue	Description
1219-A3	12/03/08	B	Label Certification Perseus
1218-A2	12/03/08	C	Certification Drawing Perseus Exd Switch

17 Conditions of Certification

17.1 Special Conditions for Safe Use

The minimum flamepath length of the shaft is 8mm.

The cable selected shall be capable of being used in temperatures up to 100°C.

17.2 Conditions for Use

The label titled Perseus on drawing number 1219-A3 shall be fitted to the enclosures housing terminals only.

The label titled Perseus/R on drawing number 1219-A3 shall be fitted to the enclosures housing resistors.

18 Essential Health and Safety Requirements

Essential Health and Safety Requirements not covered by section 9:

Covered by manufacturer's instructions.

The manufacturer shall inform the notified body of any modifications to the design of the product described by this schedule

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