



Epsilon

1 **EC - Type Examination Certificate**

2 Equipment intended for use in potentially explosive atmospheres

3 Certificate Number: EPSILON 07 ATEX 2186X

4 Equipment: Perseus Pressure Switch (I.S)

5 Manufacturer: Pyropress Engineering Company Ltd.

6 Address: Bell Close,
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 report no RETSA2175/A/1-1,2

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

BS EN 60079-0:2006, BS EN 60079-11:2007, BS EN 60079-26:2004
BS EN 61241-0:2006, BS EN 61241-11:2006

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.






On behalf of Epsilon

S Clarke
Certification Manager

Date: 25 February 2008



- 12 The marking of the equipment shall include the following:

Model Perseus (switch only)
 II 1G Ex ia IIC T6 (-50°C to +78°C)
 II 1G Ex ia IIC T5 (-50°C to +93°C)
 II 1G Ex ia IIC T4 (-50°C to +128°C)

Model Perseus/R
 II 1G Ex ia IIC T5 (-50°C to +72°C)
 II 1G Ex ia IIC T4 (-50°C to +122°C)

All models

 II 1D Ex iaD 20 IP67 T200°C (-50°C to +70°C)

13 **Schedule**

14 Certificate Number: EPSILON 07 ATEX 123456

15 Description of Equipment or protective system

The Perseus range consists of a single or dual switch which is mounted inside an enclosure for increased functionality and protection. The housing is manufactured from Stainless Steel, Aluminium or Polyphenylene sulphide and provides suitable ingress protection for the intended application. The Perseus range is certified to be installed in a Zone 0 environment, when supplied from an approved Intrinsically Safe Interface located in the safe area. Some model variants are fitted with signal conditioning resistors.

Intrinsically Safe Specifications:

Ui: 28Vdc
 Ii: 93mA
 Pi: 0.65W
 Ci: 0 nF
 Li: 0mH

16 Descriptive Documents

16.1 Report No: RETS(A)2175/A/1/1,2

16.2 Drawings:

Number	Sheet	Date	Issue	Description
1262-A3	1 of 1	06/07/07	C	Exia Label certification Perseus
1266-A2	1 of 1	23/07/07	B	Certification Drawing Perseus Exia Switch
1263-A2	1 of 1	28/06/07	A	I,S pcb with resistors Perseus
1264-A4	1 of 1	02/07/07	A	Pcb track layout- single Titan/Perseus
1265-A4	1 of 1	02/07/07	A	Pcb track layout- double Titan/Perseus

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17 Conditions of Certification

17.1 Special Conditions for Safe Use (Category 1, Zone 0)

Aluminium may only be used when the ignition hazard assessment shows that there is no risk of ignition from incendive, impact or abrasion sparks.

17.2 Conditions for Use
None

18 Essential Health and Safety Requirements

Essential Health and Safety Requirements not covered by section 9:
are 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