



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: **Baseefa09ATEX0327**

4 Equipment or Protective System: **EXD2010 Electro-hydraulic Positioning System**

5 Manufacturer: **Orange Instruments Limited**

6 Address: **Lower Farm Road, Moulton Park, Northampton, NN3 6XF**

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 Baseefa, Notified Body number 1180, 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 Report No. **09(C)0476**

9 Compliance with the 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

except in respect of those requirements listed 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 and construction of the specified equipment or protective system. 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 2 GD Ex d IIC Ex tD A21 IP66 T85°C (-40°C ≤ Ta ≤ +59°C)

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **1575**

Project File No. **09/0476**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number Baseefa09ATEX0327

15 Description of Equipment or Protective System

The EXD2010 Electro-hydraulic Positioning System comprises either a Type 8092TT-07 or a Type 8092ST-07 Enclosure, with a solid or glazed cover respectively. The enclosure is manufactured by International Metal Engineering PTE Ltd of Singapore to Sira 08ATEX1082U, coded Ex d IIC Ex tD A21 IP66 (Ta -40°C to +85°C).

The cover is secured to the enclosure base by a threaded joint complete with a locking screw.

The interior of the enclosure comprises an assembly of several circular printed circuit boards, all mounted on pillars from a steel baseplate.

The internal PCB assembly has two optional arrangements:-

- a. The EX200, rated at up to 28V, 40mA and has a maximum internal dissipation of 1.12W
- b. The EX210, rated at up to 28V, 100mA and has a maximum internal dissipation of 2.8W

The enclosure base includes three ¾" NPT or M20 cable entries for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified flameproof stopping plugs.

Internal and external earthing facilities are provided.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component) under an EC-Type Examination Certificate to Directive 94/9/EC.

When the equipment is used in dust applications the cable entries must be sealed in accordance with EN60079-14, to maintain the IP66 rating.

16 Report Number

Baseefa Certification Report No 09(C)0476

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Issue	Date	Description
4078-003	D	08/12/2009	General Arrangement, Electro-hydraulic Positioning System EXD2010