



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: Sira 01ATEX1264

4 Equipment: PY Series Socket Outlets & SPY Series Plugs

5 Applicant: Cortem S.p.A.

6 Address: Via Aquiliera 10  
Villesse  
34070 (GO)  
Italy

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

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report numbers R51A7783A, R51A14918A and R51A16067A.


9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2006  
EN 60079-1:2003  
IEC 61241-0:2004  
IEC 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 and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

 II 2 GD  
Ex d IIC T5  
Ex tD A21 IP65 T100°C  
(Tamb -20°C to +60°C)

Project Number 51A16067  
Date 21 January 2002  
Latest Issue 18 January 2007  
C. Index 07

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C Ellaby  
Certification Officer

**Sira Certification Service**

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## SCHEDULE

### EC TYPE-EXAMINATION CERTIFICATE

Sira 01ATEX1264

Re-issued 13 February 2002 to amend the description of the equipment.

Re-issued 4 May 2004 to amend the description of the equipment.

Re-issued 18 January 2007 to incorporate variation 1 dated 15 May 2006 and to introduce the following changes described in report number R51A16067A:

- The list of supporting documents, previously EN 50014:1997 (Amendments A1 & A2), EN 50018:2000 and EN 50281-1-1:1998, has been changed, refer to clause 9.
- New dust marking, Ex tD A21 IP65 T100°C, has been introduced, refer to clause 12.
- The T6 temperature classification and +50°C maximum ambient temperature has been changed to a T5 temperature classification and +60°C maximum ambient temperature, refer to clause 12.

### 13 DESCRIPTION OF EQUIPMENT

The PY Series Socket Outlets & SPY Series Plugs are flameproof, interlocked plugs and sockets. The socket outlets comprise an aluminium body complete with two cable entries (Thread type Ø3/4" G.K. UNI 6125, Ø1" G.K. UNI 6125 or Ø11/2 G.K. UNI 6125), a threaded lid (Ø80 or 110 ISO Pitch 2) and a coupling that contains the insulated socket with relevant pins. The coupling is mounted into the body by means of a threaded joint (Ø60 or 80 ISO Pitch 2) and is complete with a dust cover. The coupling internal arrangement consists of a further threaded joint and a cemented joint. The plug comprises a cylindrical shell, which incorporates the pins, insulating materials and a hub. The hub forms a cylindrical joint with the shell and a threaded joint with suitably certified cable entry devices. The plug is offered into the socket and then turned by ≈ 90° clockwise to energise the equipment based on a simple rotary switch arrangement fitted into the socket enclosure.

**Electrical characteristics:** 690 V max, 32 A max, 500 Hz max

### 14 DESCRIPTIVE DOCUMENTS

14.1.	Drawing	Sheet	Rev.	Date	Description
	A4-4159	1 to 2	1	12 Nov 01	Technical Note
	A1-4158	1 of 1	1	12 Nov 01	Explosion Proof Sockets and Plugs Serie PY-... and SPY-... 16 A, 32 A Execution EEx-d IIC T6 IP-65 According to European Codes EN50014, EN50018, EN50281-1-1, EN60309 and Directive 94/9/EC
	A3-4160	1 of 1	0	12 Mar 01	Typical Standard Position of Pins for Some Cortem Socket-Outlet Serie PY..16 A, 32 A
	A4-4841	1 of 1	1	21 Dec 06	Detail of Label

14.2. Report numbers R51A7783A, R51A14918A and R51A16067A.

### 15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

None

### 16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in report numbers R51A7783A, R51A14918A and R51A16067A.

### 17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

Date 21 January 2002  
Latest Issue 18 January 2007

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