



# IECEX Certificate of Conformity

**INTERNATIONAL ELECTROTECHNICAL COMMISSION**  
**IEC Certification Scheme for Explosive Atmospheres**  
 for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx CES 16.0008 Issue No.: 0 Certificate history:

Status: Current

Date of Issue: 2016-08-05 Page 1 of 3

Applicant: **CORTEM S.p.A.**  
 Via Aquileia 10  
 I - 34070 Villesse (GO)  
 Italy

Equipment: Socket devices series EPC1 or EPRC1 and plugs series AP  
 Optional accessory:

Type of Protection: Flameproof enclosures 'd'; Dust ignition protection 't'

Marking: Ex db IIC T6 Gb  
 Ex tb IIIC T85°C Db  
 IP66


Approved for issue on behalf of the IECEx  
 Certification Body:

Mirko Balaz

Position:

Head of IECEx CB

Signature:  
 (for printed version)

  
 5-8-2016

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

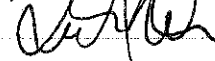
**CESI**  
 Centro Elettrotecnico  
 Sperimentale Italiano S.p.A.  
 Via Rubattino 54  
 20134 Milano  
 Italy

**CESI**

**CESI** S.p.A.

Testing & Certification Division  
 Business Area Certification  
 Il Responsabile

(Roberto Pignin)





# IECEx Certificate of Conformity

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Manufacturer: **CORTEM S.p.A.**  
Via Aquileia 10  
I - 34070 Villesse (GO)  
Italy

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> Edition: 2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:  
IT/CES/ExTR16.0012/00

Quality Assessment Report:  
IT/CES/QAR06.0002/09



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The EPC., and EPRC., Socket devices and Plugs AP., consist in a GUB-03 or CCA-03E Ex-d and Ex-tb main enclosure type with mounted a female socket devices connectable to a male plug. The socket is screwed onto the bottom wall of the main enclosure and it contains the insulated connection with female receptacles. The socket has a cylindrical female seat where the plug is inserted. When the plug is disconnected, the socket is closed through a screwed cover to guarantee the IP66 degree of protection.

The plug consist in a cylindrical body containing the male pins, a lower body with a threaded hub for cable entry and a turnable locking that while screwed on the socket establishes the plug locking. Only when the plug is completely inserted it is possible to switch "ON" the main switch by means of an external handle series M-0... positioned onto the lateral wall of the main enclosure. While the socket is energized it is not possible to disconnect the plug. To disconnect the plug the switch must be switched "OFF" and after that the plug results released.

Ground poles of both sockets and plugs are connected to the equipment main enclosure.

The Socket devices and Plugs are made in aluminium alloy. On request can be made in stainless steel.

The Socket devices and Plugs standard threaded entry types are 1-¼" or 1-½" NPT/ANSI ASME B1.20.1. Depending on the series they may have from two up to four cable entries for main enclosure and one for the plug.

For further information see Annex.

### CONDITIONS OF CERTIFICATION: NO



# IECEx Certificate of Conformity



Prot: B6019911

**Annex to certificate:**

**IECEx CES 16.0008 Issue No.:0 of 2016-08-05**

**Applicant:**

**CORTEM S.p.A.**

**Via Aquileia 10, I - 34070 Villesse (GO), Italy**

**Electrical Apparatus:**

**Socket devices series EPC1 or EPRC1 and plugs series AP**

### Electrical characteristics

- Maximum rated voltage: 690 V
- Rated frequency: 50/60 Hz
- Maximum rated current: 63 or 125 A
- Contacts no.: from 3 to 5
- Conductor sizes: 35 mm<sup>2</sup>
- Internal switch nominal current: 160 A
- Ambient temperature range: - 20 + + 40 °C (omitted marking as standard)  
- 20 + + 55 °C
- Temperature Class: T6
- Maximum surface temperature: T85°C
- Degree of protection (IEC 60529): IP 66

### Equipment identification:

PAD B6019911 (2278612) - USO RISERVATO

Socket series	Enclosure type	No. of poles	Rated Current (A)
EPC1-1T63B	GUB-03	2 + T	63
EPC1-1Q63B	GUB-03	3 + T	63
EPC1-1P63B	GUB-03	3 + N + T	63
EPC1-1Q125B	GUB-03	3 + T	125
EPC1-1P125B	GUB-03	3 + N + T	125
EPRC1-1T63B	CCA-03E	2 + T	63
EPRC1-1Q63B	CCA-03E	3 + T	63
EPRC1-1P63B	CCA-03E	3 + N + T	63
EPRC1-1Q125B	CCA-03E	3 + T	125
EPRC1-1P125B	CCA-03E	3 + N + T	125

Plug series	No. of poles	Rated Current (A)
AP-3125	2 + T	125
AP-4125	3 + T	125
AP-5125	3 + N + T	125

### Cable entries

The accessories used for cable entries and plugs for not used holes shall be subject of separate certification, suitable for type of enclosure execution, according to the applicable standards.

### Warning label

- For equipments with ambient temperature of +55 °C: *"Use cables suitable for temperatures of +90°C"*.