

CESI

CERTIFICATE



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Schema di certificazione
CESI-ATEX
CESI

[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:
CESI 03 ATEX 198 issue 02/15

[4] **Equipment:** Socket devices series **EPC1** or **EPRC1** and plugs series **AP**

[5] **Manufacturer:** **COR.TEM S.p.A.**

[6] **Address:** Via Aquileia, 10 – 34070 Villesse (GO) – Italy.

[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] CESI, notified body n. 0722 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 n. EX- B5015798.

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

EN 60079-0: 2012 EN 60079-1: 2007 EN 60079-31: 2014

[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, 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 this certificate.

[12] The marking of the equipment or protective system shall include the following:

II2GD Ex d IIC T6 Gb
Ex tb IIIC T85°C Db
IP66

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

Date 30 July 2015 - Translation issued the 30th July 2015

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Schedule

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[15] **Description of equipment**

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 1-1/4 " or 1-1/2" 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.

Electrical characteristics

- Maximum rated voltage:	690 V.
- Rated frequency:	50/60 Hz.
- Maximum rated current:	63 or 125 A.
- Contacts no.:	from 3 to 4.
- Conductor sizes:	35 mm ² .
- 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 (EN 60529):	IP 66.

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".

[16]

Report n. EX- B5015798.

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Routine tests

The manufacturer shall carry out the routine overpressure test. It shall be carried out on the socket Ex-d enclosure with the static method (paragraph 15.1.3.1 of EN 60079-1 standard), at the following value: 13,5 bars.

Descriptive documents (prot. EX- B5015801)

- Technical note A4-5957 (pg. 4)	rev.0	dated	2015.05.11
- Mounting Instruction F-283 (pg. 6)	rev.2	dated	2015.05.11
- Declaration of Conformity FACSIMILE no.0044 (pg. 1)		dated	2015.05.11
- Drawing A1-4478 (3 sheet)	rev.1	dated	2015.05.11
- Drawing A4-4952 (1 sheet)	rev.2	dated	2013.01.29
- Drawing A4-4951 (1 sheet)	rev.1	dated	2010.01.27
- Drawing A4-4129 (2 sheets)	rev.2	dated	2013.01.25

One copy of all documents is kept in CESI files..

[17] **Special conditions for safe use (X)**

None.

[18] **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are assured by compliance to the following standards:

- EN 60079-0: 2012 Explosive atmospheres – Part 0: Equipment - General requirements;
- EN 60079-0/A11: 2013 Explosive atmospheres – Part 0: Equipment - General requirements;
- EN 60079-1: 2007 Explosive atmospheres – Part 1: Equipment protection by flameproof enclosure “d”;
- EN 60079-31: 2014 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”.

Certificate history	Issue Notes
Issue No. 02/15 (2015.07.30)	[General Revision] Descriptive documents B5015801 listed in par [16] are related to update for new edition of applicable standards, upgrade to IP66 (EN 60529) degree of protection, update of nameplate.
Issue No. 01/08 (2008.06.20)	[Extension 01/08] Admitted variations: conformity to new edition of the EN standard, new ambient temperature up to +55°C, new temperature class T6 and maximum surface temperature T85°C for each ambient temperature ranges, update of nameplate.
Issue No. 0 (2003.07.07)	[First Issue of the certificate]