



# 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.:  issue No.:

Status:

Date of Issue: **2010-05-18** Page 1 of 3

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

Electrical Apparatus: **Range of Adaptors, Plugs and Fittings RE, REB, REM, REN, PLG, EM, NP**  
*Optional accessory:*

Type of Protection: **Flameproof enclosure "d", Increased safety "e", Protection by enclosures "tD"**

Marking: **Ex d IIC  
Ex e II  
Ex tD A21 IP 66/67**

*Approved for issue on behalf of the IECEx  
Certification Body:*

M. Balaz

*Position:*

Head of ExCB

*Signature:  
(for printed version)*

\_\_\_\_\_  
\_\_\_\_\_

*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](http://www.iecex.com).

Certificate issued by:

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



# IECEX Certificate of Conformity

Certificate No.: IECEX CES 10.0001X

Date of Issue: 2010-05-18

Issue No.: 0

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

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 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2003</b> Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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/ExTR10.0005/00](#)

Quality Assessment Report:

[IT/CES/QAR06.0002/04](#)



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## Schedule

### EQUIPMENT:

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

The range of Adaptors, Plugs and Fittings RE, REB, REM, REN, PLG, EM, NP are:

RE: Male-female reducer

REB: Female-male reducer

REM: Female-female adaptor

REN: Male-male adaptor

PLG: Male plug

EM: Female-female same sizes coupling

NP: Male-male same sizes nipple

The adaptors, plugs and fittings are suitable to be mounted on flameproof enclosures, on cable conduits, on increased safety enclosures and on dust-tight enclosures.

The adaptors, plugs and fittings can be manufactured in stainless steel, carbon steel, nickel-alloy steel, aluminium alloy and brass.

For adaptors, plugs and fittings with nominal size of thread equal or lower than 25 mm aluminium alloy shall not be used.

The standard male and/or female threads is NPT ANSI ASME B1.20.1 with sizes from 1/4" up to 6". An alternative nearest equivalent male and female thread forms to the NPT sizes may be utilised, for example ISO metric threads from M12 to M110 with ISO pitch 1,5 or 2,0 and other approved threads form and combinations.

The adaptors, plugs and fittings with cylindrical male threads have a sealing edge machined for fitting a silicone gasket which guarantees the degree of protection IP 66/67. For all other threads the degree of protection IP 66/67 is achieved with sealant put at least on two complete threads of the threaded coupling. The standard service temperature range for fittings is from -50 °C to +80 °C with the exception of the fittings made of carbon steel A 105 (-20 °C to +80 °C).

For further information see Annex.

### CONDITIONS OF CERTIFICATION: YES as shown below:

- The service temperature range is:

- from -20 to +80 °C for adaptors, plugs and fittings made of carbon steel
- from -50 to +80 °C for adaptors, plugs and fittings made of stainless steel, brass, aluminum alloy and nickel alloy steel

- For adaptors, plugs and fittings with nominal size of thread equal or lower than 25 mm aluminium alloy shall not be used.

- It is the final assemblers/ users responsibility to ensure the threaded joint between the fitting and the associated enclosure meet all the requirements of the applicable standards for the assembly.

- Only one adaptors is permitted for each cable entry; plugs shall not be used with adaptors.

- If the adaptors, plugs and fittings are intended for use with increased safety "Ex e" or dust protection "Ex tD" the entry threads shall be suitably sealed to maintain the ingress protection rating of the enclosure.

For a safe use of the adaptors and plugs, in order to maintain the ingress protection of the enclosure, the correct positioning of the gaskets (for plain holes) or the application of sealant on the threads (for taper holes) shall be done as indicated in the manufacturers instruction.