Operation Manual

Connection Box
*Type A11-**-******

*Ex*epd GmbH
i_PARK TAUBERFRANKEN 23
97922 Lauda-Königshofen
Germany
Phone: ++49 (0) 9343 627055-0
Fax: ++49 (0) 9343 627055-99
Mail: info@exepd.de

1. Product Description

The Connection Box Type A11-**-***** is built with an enclosure made of stainless steel.
For **category 2G and 2D** Connection Boxes are assembled with certified cable glands, and terminals.

The construction and functionality of the Connection Boxes for the use in the marked Ex zones is tested and documented by Exepd GmbH piece by piece. The passed quality test is shown by marking the box with the Ex type label.

2. Normal Handling

The Connection Box Type A11-**-***** is built for local installation in Ex zone 1 and / or zone 21. It is not allowed to install the product in zone 0 or zone 20.
Inside the connection box there are explosion protected electrical equipment and their accessories installed.
The individual Type label shows all the electrical and for the installation in hazardous area required data.
If there is no information about the ambient temperature on the type label, the boxes can be used in the temperature range of -20°C up to 40°C.
It is prohibited to make any changes on the Connection Box Type A11-**-***** without contacting the manufacturer.

3. Used Standards

(Depending on the assembled components)

EN 60079-0
EN 60079-7
EN 60079-11
EN 60079-31

4. Technical Data

Enclosure material

Type A11-*3-*****	Stainless steel 1.4301 (V2A)
Type A11-*4-*****	Stainless steel 1.4404 (V4A)

Mechanical strength according to DIN EN 60079-0: 7 Nm

Protection according to 60529/IEC 60529: IP 54 up to IP 66

Ambient temperature range:

Temperature class T6 or T80°C	max. -50°C up to + 60°C

Explosion protection:
(Please refer to type label for details)

Ⓔx II 2(1) G/D
Ex eb IIC T6 Gb
Ex eb ia IIC T6 Gb
Ex eb [ia Ga] IIC T6 Gb
Ex tb IIIC T80°C Db
Ex tb [ia Da] IIIC T80°C Db

EC type examination certificate: TPS 08 ATEX 61951 4

5. Electrical Data

(Please refer to type label)

Maximum rated voltage:	1100 V
Maximum rated currant:	500 A
Maximum cross section:	300 mm²
Maximum power loss:	500W

6. Components / Cable Glands

With the Connection Box Type A11-**-***** only separate certified components like terminals and cable glands are used. Not used holes for cable glands have to be closed by certified plugs.
Assembly and safety instruction of the component manufacturer must be considered.

7. Safety references

Devices in hazardous area must be installed, supervised, maintained and kept in good conditions by the owner of the plant. Part of this is an inspection after the transport to identify possible damages caused during the transport.
Only qualified workers are allowed to install and dismount as well as doing maintenance work on the Connection Boxes. All universally valid rules and laws and other binding directives for the safety of people and environment must be kept.

 WARNING	**DO NOT OPEN WHILE ENERGIZED!!** **DUST LAYERS >5 mm MUST BE REMOVED!** **DO NOT USE DEFECT EQUIPMENT!**

8. Installation

Mounting
The Connection Box Type A11-**-***** must be protected against aggressive and unusual environmental conditions which could cause damages on the equipment. This could be e.g. acids or high and low temperatures.
For installation, please refer to IEC / EN 60079-14 and other valid standards and directivities on the place of erection.
Information on the type label must be kept!
If cable glands marked with and „X" are in use, please refer to the operation manual of the gland supplier.

Installation

The wire connection must be made in such a manner, that the insulation material and the cores itself will not be damaged. Regarding the maximum possible cross connection and electrical data, please refer to the information written on the type label.
Metal enclosures, installed in hazardous area, must be connected to the general earth system via a cable with minimum 4 mm² cross section.
If intrinsically safe circuit installed in one box together with increased safe or energy limited circuits, the installation must protect the Ex i circuit from an increase of capacity, voltage and inductivity.
The air and creeping distance between Ex e and Ex i circuits must be kept by the internal installation.

9. Starting

Before the Connection Box Type A11-**-***** is put into operation, the qualification for the use in the predominant hazardous area must be proofed according to the type label and the zone declaration.
It is not allowed to exceed the written data on the type label.
By using the equipment in hazardous area with combustible dust, dust layers > 5 mm must be removed. To protect the equipment from these circumstances also the installation of protection hoods are possible.
The functionality of the Connection Box Type A11-**-***** itself, as well as its combination with the plant or machine must be tested before the first use.
Only use the Connection Box in clean and intact condition.

10. Operation, Maintenance and Elimination of Disturbances

Devices in hazardous area must be installed, supervised, maintained and kept in good conditions by the owner of the plant. For information, refer to IEC / EN 60079-17, see also IEC/EN 60079-19. Only skilled workers are allowed to do maintenance and the elimination of disturbance work. Before doing this work, the safety requirements must be kept!
For elimination of disturbances, only original spare parts after consulting with Exepd are allowed to use. Before using them again, the safety requirements must be kept!

11. Accessories and spare parts

Please refer to www.exepd.de

12. Service address

*Ex*epd GmbH
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Germany
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Fax: ++49 (0) 9343 627055-99
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www.exepd.de

EU-Konformitätserklärung
EU Declaration of Conformity

Dokument A11-00-C0001-10

Hersteller/Manufacturer:

Exepd GmbH, i_PARK TAUBERFRANKEN 23, D-97922 Lauda-Königshofen

Gegenstand der Erklärung/Object of the declaration:*

Anschlusskasten Typ A11-**-*****

Connection box type A11-**-*****

Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsvorschriften der Union/The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

2014/34/EU (-ABl. L 96 / 29.03.2014-)

Die Anwendung der folgenden einschlägigen harmonisierten Normen oder technischen Spezifikationen wurde als hilfreich erachtet, ganz oder teilweise die Konformität mit den wesentlichen Anforderungen zu erfüllen/The use of the following relevant harmonised standards or references to other technical specifications were helpfully, to fulfil totally or partly the conformity with the requirements:

EN IEC 60079-0:2018;
EN IEC 60079-7:2015/A1:2018;
EN 60079-11:2012 (IEC 60079-11 :2011 + Cor.:2012);
EN 60079-31:2014 (IEC 60079-31:2013)

Kennzeichnung und Hauptzündschutzart/Marking and main type of protection:*

Ⓔx II 2(1) G/D

Ex eb IIC T6 Gb
Ex eb ia IIC T6 Gb
Ex eb [ia Ga] IIC T6 Gb

Ex tb IIIC T80°C Db
Ex tb [ia Da] IIIC T80°C Db

CE 0123 TPS 08 ATEX 61951 4
TÜV Süd Product Service GmbH (0123),
Ridlerstrasse 65, 80339 München Germany

Qualitätssicherung Produktion gemäß/Production quality system according:

2014/34/EU

Zertifiziert durch/ certified by

TÜV Süd Product Service GmbH (0123)
Ridlerstrasse 65, 80339 München Germany

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller/This declaration of conformity is issued under the sole responsibility of the manufacturer.

Lauda-Königshofen, den 06.07.2021

Stefan Höger, GF/CEO, Exepd GmbH

*Die vollständige Produktbeschreibung und verwendete Zündschutzprinzipien sind in der zugehörigen Artikelbeschreibung zur Artikelnummer beschrieben (-> Auftragsdokumentation)
The product and used protection principles are described in the relevant article description according the article number (-> order documents)