

EC-TYPE EXAMINATION CERTIFICATE



Component intended for use in equipment or protective system intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

EC-Type Examination Certificate Number: DEMKO 03 ATEX 0311846U

Component: Type AXC_ _ _ -CEN Flameproof Outlet Box

Manufacturer: Akron Electric, Inc.,

Address: 1025 Eagon Street, Barberton, OH 44203 USA

This component and any acceptable variation there to is specified in the schedule to this certificate and the documents therein referred to.

DEMKO, notified body number 0539 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 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 no. 03NK11846 Report

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

EN 50014: 1997 E incl. A1-A2: 1999 EN 50018: 2000 E incl. A1: 2002

The sign "U" placed after the certificate number indicates that this certificate must not be mistaken with a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of equipment or protective system.

This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

The marking of the component shall include the following:

II 2 G EEx d IIC

For and on behalf of UL International Demko A/S

Herlev, 2003-07-11

Karina Christiansen
Certification Manager

UL International Demko A/S

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Schedule

EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 03 ATEX 0311864U

Description of Component:

The cylindrical shaped, threaded cover, empty, flameproof AXC series outletboxes are constructed of 357-T6 aluminum alloy and are intended for wiring connections only. The devices may be provided with up to 4 integral $\frac{3}{4}$ " NPT conduit hubs on the body side wall and configured as depicted in the drawings noted under the "Drawings" section.

Type Variants Covered By The Approval:

<u>AXC</u>	<u>X</u>	<u>B</u>	<u>E1</u>	<u>CEN</u>
I	II	III	IV	V

I – Series Designation

AXC- Common to all

II – Number of $\frac{3}{4}$ " NPT Integral Side wall Conduit Hubs

X- 4
T- 3
C- 2 in line
L- 2 perpendicular

III- Optional Bottom Opening

No letter- opening on the side wall
B-letter – The (II) version with the bottom optional conduit

IV- Mechanical Options

E1 – Epoxy paint outside
E2 – Epoxy paint outside/inside
M5 – Mounting strap outside

V- Series Designation

CEN- Common to all

Temperature range

The devices have been evaluated for use in a -20 °C to +40 °C ambient temperature range.

Installation instructions

Before opening the enclosure in a flammable atmosphere circuits must be interrupted.

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The approval applies to equipment without cable glands. When mounting the flameproof enclosure in a hazardous area, only flameproof cable glands certified to EN 50018 must be used.

All unused conduit entries must be closed with a Flameproof plug certified to EN 50018.

Routine Tests

The maximum reference pressure measured in accordance with EN 50018: 2000, sub clause 15.1.2 was 18.62 bar. Routine tests according to EN 50018 cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

Report No.: 03NK11864, 97NK18917 REPORT

Drawings:

Number	Date	Description
1742	4/9/03	AXC SERIES CONDUIT BODIES (AXCC ¾" 2-PORT "C" STYLE)
2133	05/06/2002	MATERIAL SPECIFICATION FOR ENCLOSURES
D-1746	4/8/03	AXC ¾" CONDUIT OUTLET SERIES WITH BOTTOM HUB
D-1747	4/9/03	TYPICAL SECTION VIEWS OF AXC ¾" CONDUIT BODIES
D-1748	4/9/03	AXC ¾" CONDUIT OUTLET SERIES WITHOUT BOTTOM HUB
D-1749	4/9/03	STANDARD COVER FOR AXC ¾" CONDUIT BODIES
B-1820	4/9/03	NAME PLATE DRAWING FOR AXC SERIES CONDUIT BOXES
B-1830	4/9/03	MOUNTING STRAP FOR AXC SERIES
B-10735	4/9/03	OPTIONAL PAINTING INSTRUCTIONS FOR AXC SERIES
B-10736	4/9/03	OPTIONAL MOUNTING STRAP MACHINING & ASSEMBLY FOR AXC SERIES
A-2157	2-28-2003	INSTALLATION INSTRUCTIONS
A-2170	06-26-03	ATEX EMPTY ENCLOSURE LABEL

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

Special conditions for safe use:

None

Essential Health and Safety Requirements

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P 3/4

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Concerning ESR this Schedule verifies compliance with the Ex standards only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

Additional information

The AXC series outlet boxes have in addition passed the tests for Ingress Protection to IP 66 in accordance with EN 60529.

On behalf of UL International Demko A/S

Herlev, 2003-07-11


Karina Christiansen
Certification Manager

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P4/4