

# EC-TYPE EXAMINATION CERTIFICATE



[1]

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

[2]

[3] EC-Type Examination Certificate Number: **DEMKO 01 ATEX 0129472U Rev. 2**

[4] Component: **XCEX Series Enclosures**

[5] Manufacturer: **Adalet/Scott Fetzer Co.**

[6] Address: **4801 W. 150<sup>th</sup> Street, Cleveland, OH 44135 USA**

[7] This Component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to design and construction of components 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. **12NK05279**

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

**EN 60079-0:2009  
EN 61241-0:2006**

**EN 60079-1:2007  
EN 61241-1:2004**

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

[11] This EC-Type examination certificate relates only to the design, examination and tests of the specified component in accordance with the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

[12] The marking of the component shall include the following:

 **II 2 G Ex d IIB Gb**  
 **II 2 D Ex tD A21 IP66**

## Certification Manager

Jan-Erik Storgaard

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

**Date of issue:** 2001-09-03

**Re-issued:** 2012-05-31

## Notified Body

UL International Demko A/S, Ballerup 5A, 2750 Ballerup, Denmark  
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**Description of Component:**

The XCEX series of external flanged cast aluminum or 316 stainless steel enclosures may have conduit/cable entries in the box and openings in the cover for threaded circular windows, cemented in place rectangular windows, and threaded auxiliary device operators.

The XCEX 081004N4-S7620 enclosure is similar to the Model No. XCEX 081004-N4 enclosure except for cover machining differences, (4) 3/8-16 UNC 2B cover operator openings. Four XMORB or XMORBS Reset button operators are provided in 3/8-16 UNC operator openings.

Types of variants comprised by the certificate:

**Enclosures:**

Model No. XCEX followed by 041604, 060804, 060805, 060806, 061105, 061204, 061206, 061305, 071004, 071006, 071805, 080804, 080806, 080808, 081004, 081006, 081008, 081204, 081206, 081208, 091105, 101004, 101006, 101008, 101206, 101404, 101406, 101408, 101410, 121204, 121206, 121208, 121804, 121806, 121808, 122005, 122404, 122406, 122408, 122410, 123006, 123604, 123606, 123608, 124608 141404, 141406, 141408, 142210, 142213, 142806, 161604, 161606, 161608, 162406, 162408, 162410, 162806, 163010, 163406, 164610, 181804, 181806, 181808, 182406, 182408, 182410, 183008, 183608, 183610, 203606, 203612, 204806, 204812, 242408, 242410, 243008, 243608, 243610, 323612 Enclosures. All numbers may be followed by -N4. All enclosures are constructed out of cast aluminium.

Model No. XCESX followed by 101408, 121208, 122410, 242410, and 243610 Enclosures. All numbers may be followed by -N4. All enclosures are constructed out of 316 stainless steel.

**Plugs:**

Model XPP3, XMPP, XPB1 N4, XPB2 N4, XPPH3 N4, XPPH4 N4, 5318 Series, XPP2 N4, XPPL, OX, 5318-S Series and 6085.

**Operators/Auxiliary Devices:**

Model XCS-1, XCS-2, XCS-3, XCS-4, XCS-5, XRB, XRBL, XBOS, XHDMC, XHDMCS, XHDPB, XHDPBS, XHKSC, XHKSL, XHKSR, XHKSS, XHKSSC, XHKSSL, XHKSSR, XHKSSS, XHPB, XHPBPL, XHPBM, XHPBMS, XHPBS, XHPBSPL, XHPPM, XHSC, XHSL, XHSR, XHSS, XHSSC, XHSSL, XHSSPL, XHSSR, XHSSS, XHSSSPL, XPO, XPOL, XPOC, XPOCS, XPOS, XPOSL, XSSL-4P, XSSL-5P, XSSS-4P, XSSS-5P, XBO, XHPPMS, XIRBS, XMOBS-1 to -14, XMORBS, XIRB, XMOSS-1 to -3, XMOB-1 to -14, XMORB, XMOS-1 to -3, XCBH 21 XCBH 22, XCBH1GF-L, XCBH1GF-R, XPB1-GL1, XPB1-H1, XPB1-H2, XPB1-H3, XPB1GL2, XPB2-H1, XCBH2-1, XCBH2-2, XCBH2-3, XCBH2-4, XCBH2-X Series, XMOL, XLX, XLXS, XLX-G, XLSX-G, XLPS\_X, XLP\_X, XHPBLMS, XHPBLM, XHPPMS, XPBH1, XBOS2-6, XRSO1, XHPBPLG.

**Drain and Breather Fittings:**

Model XDBH2 (IP 40 only).

**Windows:**

Models XGC10, XGC20, XGC30, XGC40, XGC52, XGC66 and XGC80.

Model Series XGW:

XGW A B, Example XGW 0709 (7 in. x 9 in.)

01 – 1 in. (25 mm)	05 – 5 in. (130 mm)	10 – 10 in. (250 mm)
015 – 1.5" (40 mm)	06 – 6 in. (150 mm)	11 – 11 in. (280 mm)
02 – 2 in. (50 mm)	07 – 7 in. (180 mm)	12 – 12 in. (300 mm)
03 – 3 in. (80 mm)	08 – 8 in. (200 mm)	13 – 13 in. (330 mm)
04 – 4 in. (100 mm)	09 – 9 in. (230 mm)	

**Close-Up Plugs, Breather Drains, Adapters, Reducers and Elbows:**

	Model	Manufacturer	Certificate
Elbows	Type N	Hazardous Location Solutions	Sira 07ATEX1174U
Breather Drain Plugs	Type Bd	Hazardous Locations Solutions	Sira 07ATEX1174U
Reducers	Type R	Hazardous Locations Solutions	Sira 07ATEX1175X
Adaptors	Type A	Hazardous Locations Solutions	Sira 07ATEX1175X
Stopping Plugs	Type D and U	Hazardous Locations Solutions	Sira 07ATEX1175X



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Temperature range

Ambient Temperature Range	Models
-40°C to +60°C	XCEX: 041604, 060804, 060805, 060806, 061105, 061204, 061206, 061305, 071004, 071006, 071805, 080804, 080806, 080808, 081004, 081006, 081008, 081204, 081206, 081208, 091105, 101004, 101006, 123606, 123608, 124608, 141404, 141406, 141408, 142210, 142213, 142806, 161604, 161606, 161608, 162406, 162408, 162410, 162806, 163010, 163406, 164610, 181804, 181806, 181808, 182406, 182408, 182410, 183008, 183608, 183610, 203606, 203612, 204806 and 204812.
-20°C to +60°C	XCEX: 041604, 060804, 060805, 060806, 061105, 061204, 061206, 061305, 071004, 071006, 071805, 080804, 080805, 080806, 081004, 081006, 081008, 081204, 081206, 081208, 091105, 101004, 101006, 101008, 101206, 101404, 101406, 101408, 101410, 121204, 121206, 121208, 1210804, 121806, 121808, 122005, 122404, 122406, 122408, 122410, 122306, 123604, 123606, 123608, 124608, 141404, 141406, 141408, 142210, 142213, 142806, 161604, 161606, 161608, 162406, 162408, 162410, 162806, 163010, 163406, 164610, 181804, 181806, 181808, 182408, 182410, 183008, 183608, 183610, 203606, 203612, 204806, 204812, 242408, 242410, 243008, 243608, 243610, 243008, 243608, 243610, 243612 and 323612.  XCESX: 101408, 121208, 122410, 242410, and 243610

Installation instructions

- All cable entry devices and blanking elements shall be certified for protection type “d” and “tD”, suitable for IP ratings and correctly installed.
- Unused apertures shall be closed with suitable blanking elements.
- For ambient temperatures below -10 °C and above +60 °C use field wiring suitable for both minimum and maximum ambient temperature.
- The Type N elbows, manufactured by Hazardous Location Solutions are not to be used for the direct inter connection of enclosures. Only one elbow shall be used with any single cable entry on the associated equipment. Elbows with nitrile o-rings or manufactured from steel are not for use for in a low ambient less than -20°C.
- The Type Bd breather drain plugs, manufactured by Hazardous Location Solutions are suitable for bottom entry only. The threads of the internal plug on the Type Bd breather are not permitted to protrude into the associated enclosure to maintain their ingress protection ratings. Breather drain plugs with nitrile o-rings or manufactured from steel are not for use in a low ambient less than -20°C.
- The Type R reducers, manufactured by Hazardous Location Solutions are not to be used for the direct inter-connection of enclosures. Only one reducer shall be used with any single cable entry on the associated equipment. Reducers with nitrile o-rings or manufactured from steel are not for use in a low ambient less than -20°C.
- The Type A adaptors, manufactured by Hazardous Location Solutions are not to be used for the direct inter-connection of enclosures. Only one adaptor shall be used with any single cable entry on the associated equipment. Adaptors with nitrile o-rings or manufactured from steel are not for use in a low ambient less than -20°C.
- The Type D and Type U stopping plugs, manufactured by Hazardous Location Solutions with nitrile o-rings or manufactured from steel are not for use in a low ambient less than -20°C.

Routine tests

Routine tests according to EN 60079-1 cl. 16 are required on the following enclosures:

Ambient Temperature Range	XCEX Models
-20°C to +60°C	323612.
-40°C to +60°C	060804, 060805, 060806, 061105, 061204, 061206, 061305, 071004, 071006, 071805, 080804, 080806, 080808, 081004, 081006, 081008, 081204, 081206, 081208, 091105, 101004, 101006, 123606, 123608, 124608, 141404, 141406, 141408, 142210, 142213, 142806, 161604, 161606, 161608, 162408, 162410, 162806, 163010, 163406 and 164610.



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[16] **Report No.**  
 Project Report No.: 12NK05279 (Hazardous Location Testing)

**Documents:**

Description:	Drawing No.:	Rev. Level:	Date:
XCEX Assembly Drawing (4 pages)	DS483M	H	2012-05-25
XCEX Series Nameplate	8146	B	2012-05-25
XCEX Low Ambient Series Nameplate	8148	A	2011-09-22
Earth Stud Assembly	18813	B	2000-08-23
Installation Sheet (2 pages)	DS631	C	2011-09-23
Optional Earthing	DS739	A	2004-10-05
XRБ Overall Assembly	4757-1, 4378	J,K	-
S7620 Overall Assembly	S7620	B	2003-12-23
S7620 Body	S7620-1	B	2004-05-10
S7620 N4 Cover	S7620-2	B	2004-05-10
XMORBS	6094(-1), 6196(-1)	H,C	-
XMORB	6094(-2), 6196(-2)	H,C	-
XPP3 3/4 in. NPSM Plug	5375	F	1997-04-30
XMPP Plug	6127	B	2009-10-22
XPB1/XPB2 N4 3/8 in. NPSM Plug	15562-7	A	1999-04-01
XPPH3 N4 3/4 in. NPSM Plug	6014	E	2009-01-22
XPPH4 N4 1 in. NPSM Plug	7069	B	1998-09-03
5318 Series Plugs (Aluminum)	5318	F	2001-10-25
XPP2 N4 1/2 in. NPSM Plug	6084	A	1988-12-21
XPPL 1-11-1/2 in. NPSM Plug	S3634	A	1983-05-04
OX Plugs	5219	J	2003-04-22
OX Cast Plugs	5220	K	2003-04-22
5318-S Series Plugs	5318-S	D	2006-10-25
6085 3/4 in.-15 UNF Type 4 Plug	6085	A	1987-08-18
XCS-1	3234-1, 3117(-1)	J,M	-
XCS-2	3234-2, 3117(-2)	L,M	-
XCS-3	3234-3, 3117(-3)	J,M	-
XCS-4	3234-4, 3117(-4)	J,M	-
XCS-5	3234-5, 3117(-5)	K,M	-
XRБ	4757-1, 4378	J,K	-
XRBL	4757-2, 4378	J,K	-
XBOS	7193, 7197	D,D	-
XHDMC	4323, 4355, 4354(-1), 8064	U,F,G,C	-
XHDMCS	4322, 4355, 4354(-1), 8063	U,E,F,B	-
XHDPB	4323, 4212(-2),8064	U,Q,C	-
XHDPBS	4322, 4212(-1), 8063	U,Q,B	-
XHKSC	BM1007	G	2011-08-29
XHKSL	BM1007	G	2011-08-29
XHKSR	BM1007	G	2011-08-29
XHKSS	BM1074	G	2011-09-15
XHKSSC	BM1008	H	2011-08-29
XHKSSL	BM1008	H	2011-08-29
XHKSSR	BM1008	H	2011-08-29
XHKSSS	BM1073	G	2011-08-26
XHPB	BM911	F	2011-08-29
XHPBPL	BM929	F	2011-08-29
XHPBM	BM913	E	2011-08-25
XHPBMS	BM914	E	2011-08-25
XHPBS	BM912	E	2011-08-29
XHPBSPL	BM928	E	2011-08-29
XHPPM	BM1243	N	2011-08-25
XHSC	4321, 4212(-8),7813	W,Q,D	-
XHSL	4321, 4212(-8),7813	W,Q,D	-
XHSR	4321, 4212(-8),7813	W,Q,D	-
XHSS	BM1035	F	2011-08-29
XHSSC	4320, 4212(-7), 7812	W,Q,D	-



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XHSSL	4320, 4212(-7), 7812	W,Q,D	-
XHSSPL	4321, 4212(-2),7813	W,Q,D	-
XHSSR	4320, 4212(-7),7812	W,Q,D	-
XHSSS	BM1036	F	2011-08-29
XHSSSPL	4320,4212(-1),7812	W,Q,D	-
XPO	18013	E	2011-08-29
XPOL	4321,4493(-2),7813	W,J,D	-
XPOC	18016-1	C	2011-08-26
XPOCS	18019	C	2011-08-26
XPOS	18022	E	2011-08-29
XPOS�	4320,4493(-1)	W,J	-
XSSL-4P	4321, 5966(-2), 7813	W,C,D	-
XSS-4P	4320,5966(-1),7812	W,C,D	-
XSS-5P	4320,5966(-1),7812	W,C,D	-
XBO	7194, 7204	F,E	-
XHPPMS	4320,5867(-1),5872,7812	W,D,D,D	-
XIRBS	6211,6210	F,F	-
XMOBS-1 to -14	6094(-1), 6096(-1)	H,K	-
XMORBS	6094(-1),6196(-1)	H,C	-
XIRB	6200,6201	D,C	-
XMOSS-1 to -3	6107(-2),6111(-2)	D,G	-
XMORB	6094(-2),6196(-2)	H,C	-
XMOS-1 to -3	6107(-1),6111(-1)	D,G	-
XCBH 21	5267, 4264	J,GG	-
XCBH 22	5267, 4264	J,GG	-
XCBH1GF-L	4456,4457(-1)	K,M	-
XCBH1GF-R	4456,4457(-1)	K,M	-
XPB1GR1	4456,7188(-3)	K,P	-
XPB1-GL1	4456,7188(-3)	K,P	-
XPB1-H2	4456,7059-1	K,B	-
XPB1-H3	4456,7059-1	K,B	-
XPB1GL2	4456,7059-1	K,B	-
XPB2-H1	4456,7059-1	K,B	-
XCBH2-1	5267,4264	J,GG	-
XCBH2-2	5267,4264	J,GG	-
XCBH2-3	5267,4264	J,GG	-
XCBH2-4	5267,4264	J,GG	-
XCBH2-X Series	BM1392	A	2011-09-15
XMOL	6101,6103	D,A	-
XLX	DS742	B	2007-12-14
XLXS	DS742	B	2007-12-14
XDBH2 Breather	15876	E	2004-02-16
XHPBLMS	BM1105	E	2011-08-29
XHPBLM	BM1105	E	2011-08-29
XHPPMS	BM1240	M	2011-08-25
XHPBH	BM911	F	2011-08-29
XPBH1	15562	D	2011-09-19
XBOS2-6	19956-2	B	2011-09-19
XRSO1	S7722-5	B	2011-09-19
XHPBPLG	16140	A	2011-09-19
XCBH2-X Series	BM1392	A	2011-09-19
XLP_X	23004,8066,8058-2	A,C,A	-
XLPS_X	8065,6058-1	C,A	-
Operator Gasket Drawing	5182	E	2011-09-23
XCESX Series	DS900M	B	2012-05-29
XCESX Series Nameplate	8161	A	2012-04-25
XCESX Series Installation Instructions	DS916	A	2012-04-25
XCEX Series Nameplate- Houston	8146H	B	2012-05-24
XCEX/XCESX Series Nameplate- Houston	8161H	A	2012-04-25
XCEX Low Ambient Series Nameplate- Houston	8148H	A	2012-05-30





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**Schedule**  
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[17] Schedule of Limitations:

- The maximum number of apertures, their maximum sizes and their positions shall be addressed through direct statement or reference to a drawing number.
- Rotating machines, or other devices which create turbulence, shall not be incorporated.
- Oil-filled circuit-breakers and contactors shall not be used.
- Ambient temperature range of -40°C to +60°C.
- Content of the enclosure equipment may be placed in any arrangement, provided that an area of at least 20% of each cross-sectional area remains free to permit an unimpeded gas flow and, therefore, unrestricted development of an explosion. Separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12.5 mm.
- Maximum operating temperature of windows is from -40°C to +100°C.
- Auxiliary devices were evaluated for use in -20°C to +40°C ambient. Consideration should be given to the effects if used outside this temperature range.
- The glass windows were tested for thermal shock to +100°C. Consideration should be given to the effects of use outside of these temperatures.

[18] Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Annex III of ATEX directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

Additional information

Enclosures with O-ring construction, -N4 suffix, are suitable for IP66 enclosure rating. Enclosures without O-ring are suitable for IP40 rating.

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.

