



EC Type Examination Certificate CML 15ATEX3078U Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC
- 2 Component **SX Range of Empty Enclosures**
- 3 Manufacturer **Abtech Limited**
- 4 Address 199 Newhall Road,
Lower Don Valley,
Sheffield, S9 2QJ,
UK
- 5 The component is specified in the description of this certificate and the documents to which it refers.
- 6 Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK, Notified Body Number 2503, in accordance with Article 9 of Directive 94/9/EC, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 The 'U' suffix after the certificate number indicates that the component is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EC Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 94/9/EC Article 8 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

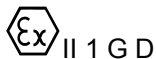
EN 60079-0:2012:A11:2013

EN 60079-11:2012

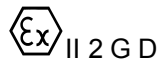
EN 60079-31:2014

EN 60079-7:2007

- 10 The equipment shall be marked with the following:



Ex ia IIC Ga
Ex ta IIIC Da



Ex e IIC Gb
Ex ib IIC Gb
Ex tb IIIC Gb

M D Shearman FinstMC
Managing Director



CML 15ATEX3078U
Issue 0

11 Description

The SX Range of Empty Enclosures are manufactured from steel, stainless steel or brass, other alloys of steel or other alloys of copper, and are manufactured in the following standard sizes:

SX Ref.	Group and Category	Length (mm)	Width (mm)	Depth (mm)	
				Min.	Max.
SX0	II 2 G D	229	152	140	2000
SX0.5	II 2 G D	274	184	140	2000
SX1	II 2 G D	324	234	140	2000
SX1.5	II 2 G D	306	306	140	2000
SX2	II 2 G D	324	372	140	2000
SX3	II 2 G D	448	372	140	2000
SX4	II 2 G D	510	372	140	2000
SX5	II 2 G D	510	510	140	2000
SX6	II 2 G D	780	510	140	2000
SX7	II 2 G D	950	650	140	2000
SX8	II 2 G D	1250	800	140	2000
SX225	II 2 G D	2000	2000	140	2000
SX45	II 2 G D	114	114	51 (Nominal)	
SX64	II 2 G D	152	102	63 (Nominal)	
SX66	II 2 G D	152	152	102 (Nominal)	

Enclosures may also be manufactured to sizes not specified in the above table. This assumes that any given dimension is not larger than the respective dimension of the largest enclosure or smaller than the respective dimension of the smallest enclosure.

The lid may be hinged and gland plates may be provided on the base, top, sides or back of the enclosure. Cable entries may be provided either through the gland plates or in the enclosure walls. Additionally, threaded bosses may be provided, welded, brazed or soldered into position.

An external and optional internal earth stud is provided on all enclosures (Min. size M6) and gaskets are manufactured from a closed cell silicone rubber strip or solid silicone rubber.

Optionally, the enclosures may be provided with a glass window.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	27/07/2015	R406A/00	Issue of prime certificate

Note: Drawings that describe the equipment or component are listed in the Annex.



CML 15ATEX3078U
Issue 0

13 Conditions of manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- 13.1 The manufacturer shall take all reasonable steps to ensure the items used in the construction of the enclosure are used within the minimum and maximum service temperatures stated in the 'schedule of limitations/conditions of safe use'. When supplied, the manufacturer shall the installer/user with a copy of the certificate(s) associated with any blanking plugs, adapters, reducers or breather drains.
- 13.2 If the enclosures are supplied with blanking plugs, reducers, adapters or breather drains, then the manufacturer shall ensure that:
- The fitted items do not affect the installation of the enclosure, e.g. any conditions of safe use that would alter the allowable specification of the enclosure, such as reduced levels of mechanical protection.
 - The fitted items do not adversely affect the minimum IP rating of the enclosure.
 - That when fitted, the enclosure marking reflects the "worst case" item fitted.
- 13.3 When trunking is fitted, it may be sited as required, provided the minimum creepage and clearance distances are met.
- 13.4 When the optional earth bar is provided, it shall allow for a conductor size that is in accordance with EN 60079-0, clause 15.3.
- 13.5 The earth bar connection washers, screws and nuts, shall not be constructed of light metals.
- 13.6 When the earth connection to the earth bar is secured via thread sealant alone, it shall be ensured that the sealant used has a suitable operating temperature range to account for the lowest ambient range and the T-class to be applied.

14 Special Conditions for Safe Use (Conditions of Certification)

The following conditions relate to safe installation and/or use of the equipment.

- 14.1 The following parts used in the construction have the maximum service temperature ranges listed below and shall not be exceeded:

Item	Service Temperature Range	
	Minimum	Maximum
Closed cell silicone strip gasket	-60°C	180°C
Solid silicone rubber gasket	-60°C	180°C
Glass window	-60°C	180°C
Blanking plugs, reducers, adapters and breather drains	Refer to individual certificate(s)	Refer to individual certificate(s)

Certificate Annex



Certificate Number CML 15ATEX3078U
Equipment SX Range of Empty Enclosures
Manufacturer Abtech Ltd

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
ATB28780	1 of 1	A	27/07/2015	SX Manufacturing Specification
ATB28781	1 of 1	A	27/07/2015	SX Range of Enclosures
ATB28782	1 of 1	A	27/07/2015	SX Range Large Window
ATB29300	1 of 1	A	27/07/2015	External ATEX Label SX Range
ATB29307	1 of 1	A	27/07/2015	External IECEx Label SX Range