

# Electrical Equipment for Explosive Atmospheres

## Certificate of Type Verification

<b>Applicant</b>	Wan Jiun Technology Co., Ltd.								
<b>Applicant address</b>	11F., No.896, Jingguo Rd. Luzhu Dist., Taoyuan City 338018 Taiwan	TEL	+886-3-3161585						
<b>Manufacturer</b>	R. STAHL Schaltgeräte GmbH								
<b>Manufacturer address</b>	Am Bahnhof 30 74638 Waldenburg Germany	TEL	+49(0)7942/ 943-4162						
<b>Name of product Type</b>	Terminal box 8146/1 and 8146/2 series								
<b>Ex marking</b>	8146/1 : Ex db eb ia mb IIA, IIB, IIC T6, T5, T4 Gb Ex tb IIIC T80 °C, T95 °C, T130 °C Db 8146/2 : Ex ia IIC T6, T5, T4 Gb Ex tb IIIC T80 °C, T95 °C, T130 °C Db								
<b>Certificate No.</b>	(ITRI)2012 07-00088X								
<b>Date of first issue</b>	May 05, 2012								
<b>Date of Renewal</b>	May 10, 2021								
<b>Valid period</b>	May 05, 2021 to May 04, 2024								
<b>Standards:</b>	IEC 60079-0 : 2017 ; IEC 60079-1 : 2014 ; IEC 60079-7 : 2017 ; IEC 60079-11 : 2011 ; IEC 60079-18 : 2017 ; IEC 60079-31 : 2013.								
<b>Ratings:</b>	Maximum rating voltage : 1100 V AC/DC; Maximum rating current : 500 A ; IP66.								
<b>Ambient temperature:</b>	-60°C~+100°C (Gasket 1) -20°C~+60°C (Gasket 2)								
<b>Main components:</b>	Enclosure, gasket, cable gland, terminal block.								
<b>Type variants:</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Type</th> <th>8146/abc-d</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">a</td> <td>Design 1 = terminal box Ex e (or combined Ex e and Ex i) 2 = terminal box Ex i</td> </tr> <tr> <td style="text-align: center;">b</td> <td>Enclosure length × width [mm] 00 = combination 03 = 112.5 × 112.5 04 = 170.0 × 112.5 24 = 227.0 × 112.5 05 = 170.0 × 170.0 06 = 227.0 × 170.0 07 = 340.5 × 170.0 B7 = 340.5 × 170.0 S7 = 340.5 × 170.0 08 = 340.5 × 340.5 09 = 681.5 × 340.5</td> </tr> </tbody> </table>			Type	8146/abc-d	a	Design 1 = terminal box Ex e (or combined Ex e and Ex i) 2 = terminal box Ex i	b	Enclosure length × width [mm] 00 = combination 03 = 112.5 × 112.5 04 = 170.0 × 112.5 24 = 227.0 × 112.5 05 = 170.0 × 170.0 06 = 227.0 × 170.0 07 = 340.5 × 170.0 B7 = 340.5 × 170.0 S7 = 340.5 × 170.0 08 = 340.5 × 340.5 09 = 681.5 × 340.5
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**Industrial Technology Research Institute**  
195 Sec. 4, Chung Hsing Rd., Chutung, Hsinchu, 310401, Taiwan



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	<b>Type</b>	8146/abc-d										
	<b>c</b>	Enclosure height [mm] 0 = combination 1 = 91 (enclosure height 76 mm, cover height 15 mm) 2 = 131 (enclosure height 76 mm, cover height 55 mm) 3 = 150 (enclosure height 135 mm, cover height 15 mm) 4 = 171 (enclosure height 76 mm, cover height 95 mm) 5 = 190 (enclosure height 135 mm, cover height 55 mm) 6 = 230 (enclosure height 135 mm, cover height 95 mm) 7 = 104 (enclosure height 76 mm, cover height 28 mm)										
	<b>d</b>	Further information without relevance to explosion protection										
<b>Specific conditions of use:</b>	<p>The assessment for cable entry devices is not included. For safe use, certified cable entry devices with proper type of protections shall be correctly fitted to maintain the integrity of specified protections.</p> <p>The terminal box with a coating of polyester powder must not be used in areas affected by charge-producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust.</p>											
<b>Approval reference:</b>	<p>The assessment of the above equipment is based on the review of IECEx Certificate of Conformity (IECEx PTB 06.0046 Issue No: 3) issued by Physikalisch-Technische Bundesanstalt (PTB), Germany and the associate test reports (DE/PTB/ExTR06.0061/04).</p>											
<b>Certificate history:</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Issue 1 (A201500459)</td> <td>(2015-10-19)</td> </tr> <tr> <td>Issue 2 (A1050050)</td> <td>(2016-05-17)</td> </tr> <tr> <td>Issue 3 (B201800106)</td> <td>(2018-04-26)</td> </tr> <tr> <td>Issue 4 (B202100140)</td> <td>(2021-05-10)</td> </tr> <tr> <td>Issue 5 (A1110081)</td> <td>(2023-03-16)</td> </tr> </table>		Issue 1 (A201500459)	(2015-10-19)	Issue 2 (A1050050)	(2016-05-17)	Issue 3 (B201800106)	(2018-04-26)	Issue 4 (B202100140)	(2021-05-10)	Issue 5 (A1110081)	(2023-03-16)
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