Control and signalling devices
Control box

8146/5085 Art. No. 136947



- Practical Ex e control boxes made of glass fibre reinforced polyester resin
- Can be equipped as required with control devices, indicator lamps, illuminated pushbuttons, control switches, ammeters and voltmeters
- Optional: Flanges, cover hinges, flange enclosures, brass plates, cable glands made of metal

MY R. STAHL **8146F**

R. STAHL Series 8146 control boxes are available in eight basic sizes and various enclosure heights; they can be combined to make larger units. They are made of high-quality glass fibre reinforced polyester resin. We equip these with various components according to customer requirements, whereby the following optional accessories are available: Flanges, cover hinges or cable glands made of metal.

Technical Data

Explosion Protection	
Scope of validity	European Union (ATEX) IECEx
Application range (zones)	1, 2, 21, 22
IECEx gas certificate	IECEx PTB 06.0090
IECEx gas explosion protection	Ex eb IIC T6 ... T4 Gb
IECEx dust certificate	IECEx PTB 06.0090
IECEx dust explosion protection	Ex tb IIIC T80 °C ... T130 °C Db
ATEX gas certificate	PTB 01 ATEX 1024
ATEX gas explosion protection	Ⓔx II 2 G Ex eb IIC T6 ... T4 Gb
ATEX dust certificate	PTB 01 ATEX 1024
ATEX dust explosion protection	Ⓔx II 2 D Ex tb IIIC T80 °C ... T130 °C Db
Certificates	ATEX (PTB), Brazil (ULB), Canada (FM), China (NEPSI), IECEx (PTB), India (PESO), Korea (KGS), Taiwan (ITRI), USA (FM)
Notes	Product label may vary. Series devices are labelled with ATEX and IECEx.
Electrical Data	
Rated operational voltage AC	0 ... 1000 V
Rated operational current	0 – 630 A
Notes	Depending on the built-in components.
Ambient Conditions	
Ambient temperature	-60 °C ... +40 °C (T6) (T80 °C) -60 °C ... +55 °C (T5) (T95 °C) -60 °C ... +70 °C (T4) (T130 °C)
Ambient temperature	-76°F ... +104°F (T6) (T80 °C) -76°F ... +131°F (T5) (T95 °C) -76°F ... +158°F (T4) (T130 °C)
Mechanical Data	
Degree of protection IP (IEC 60529)	IP66

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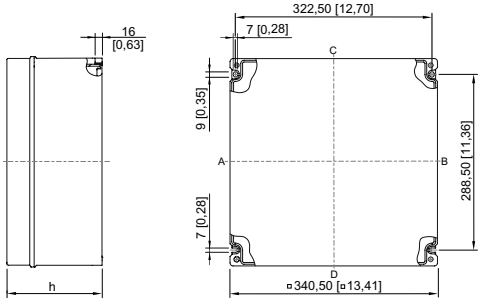
Mechanical Data

Enclosure material	Polyester resin, Glass fibre reinforced
Enclosure colour	Dark grey
Flammability according to	IEC/EN 60695 UL 94 ASTM D635
Silicone-free	No
Cover fixing type	With captive screws
Cover thickness	2.8 mm
Cover thickness inch	0.11 in
Wall thickness	2.8 mm
Wall thickness, inches	0.11 in
Width	340.5 mm
Width, inches	13.406 in
Height	340.5 mm
Height, inches	13.4060 in
Depth	190 mm
Depth, inches	7.48 in
Weight	3.9 kg
Weight	8.6 lb

Components

Flange and plates	Without flange

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



8146/.08.
8146/.081: h = 91 mm [3.58 inch]
8146/.082: h = 131 mm [5.16 inch]
8146/.083: h = 150 mm [5.91 inch]
8146/.084: h = 171 mm [6.73 inch]
8146/.085: h = 190 mm [7.48 inch]
8146/.086: h = 230 mm [9.06 inch]

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.