

Control and Distribution Boxes made of Stainless Steel

Series 8150

STAHL



- > Circumferential protection channel prevents water entry
- > Extended temperature range due to high-quality seal materials
- > Optionally with hinges / cam locks or screw-on cover
- > Hinge versions with large opening angle 130°
- > Flange plates tightened from the outside enables simple installation
- > Standard sizes on stock
- > Special sizes on request

E4



14111E00

Control devices and control units are assembled clearly in control stations Series 8150. The enclosure is available in brush finished stainless steel 1.4404 (AISI 316L) and 1.4301 (AISI 304). The product range includes a wide range of enclosure sizes with different heights. Since there are so many possible combinations of components, every control station Series 8150 is designed and manufactured to order. The number of devices installed depends on the size of the control station as well as on the space required for the built-in devices.

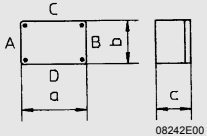
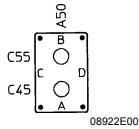
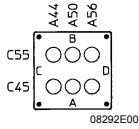
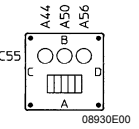
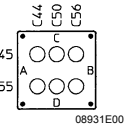
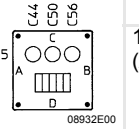
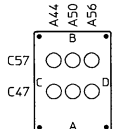
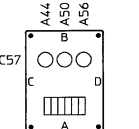
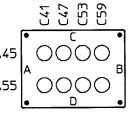
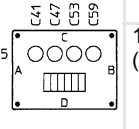
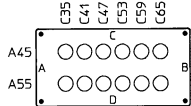
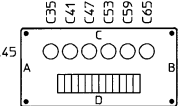
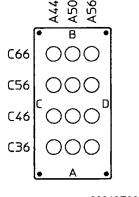
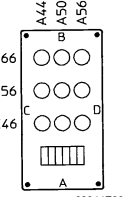
	ATEX / IECEx					
Zone	0	1	2	20	21	22
For use in		x	x		x	x

WebCode 8150B

Control and Distribution Boxes made of Stainless Steel

Series 8150

Equipment Table for Control Boxes 8150, for built-in components with mounting grid 42 mm

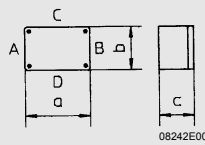
 09338E00 8082 Control devices with actuators $\varnothing$ 38 mm		 09339E00 8010 Indicating lamp		 09340E00 8082/8010 Illuminated pushbuttons	
Enclosure	 08242E00	Equipment configuration maximum options with built-in components with mounting grid 42 mm such as: control devices 8082, indicating lamps 8010 and illuminated pushbuttons 8082/8010			Enclosure material Ordering code
Enclosure size 4	Dimensions [mm] a b c 176 116 91	Fig. 4.1 			1.4301 (AISI 304) 8150/5-0176-0116-091-2311
		Side facing down			1.4404 (AISI 316L) 8150/5-0176-0116-091-3311
Enclosure size 5	Dimensions [mm] a b c 176 176 91	Fig. 5.1 	Fig. 5.2 	Fig. 5.3 	Fig. 5.4 
		Side facing down	Side facing down	Side facing down	Side facing down
Enclosure size 6	Dimensions [mm] a b c 236 176 91	Fig. 6.1 	Fig. 6.2 	Fig. 6.3 	Fig. 6.4 
		Side facing down	Side facing down	Side facing down	Side facing down
Enclosure size 7	Dimensions [mm] a b c 360 176 91	Fig. 7.1 		Fig. 7.2 	
		Side facing down		Side facing down	
Enclosure size 7	Dimensions [mm] a b c 360 176 91	Fig. 7.3 		Fig. 7.4 	
		Side facing down		Side facing down	

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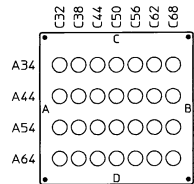
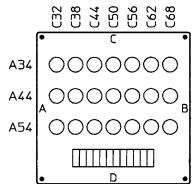
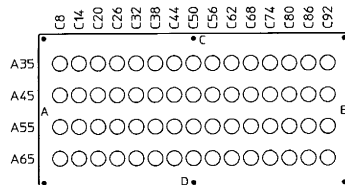
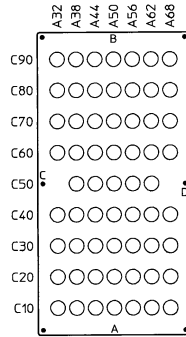
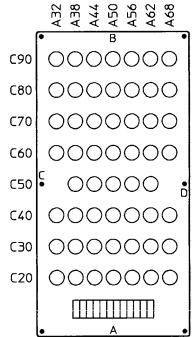
Enclosure



Equipment configuration
maximum options with built-in components
with mounting grid 42 mm such as:
control devices 8082, indicating lamps 8010 and
illuminated pushbuttons 8082/8010

Enclosure
material

Ordering code

Enclosure size 8	Dimensions [mm] a b c 360 360 91	Fig. 8.1	Fig. 8.2	1.4301 (AISI 304)	8150/5-0360- 0360-091-2311
				1.4404 (AISI 316L)	8150/5-0360- 0360-091-3311
Side facing down		D	D		
Enclosure size 9	Dimensions [mm] a b c 727 360 91	Fig. 9.1		1.4301 (AISI 304)	8150/5-0727- 0360-091-2311
				1.4404 (AISI 316L)	8150/5-0727- 0360-091-3311
Side facing down		D			
Enclosure size 9	Dimensions [mm] a b c 727 360 91	Fig. 9.2	Fig. 9.3	1.4301 (AISI 304)	8150/5-0727- 0360-091-2311
				1.4404 (AISI 316L)	8150/5-0727- 0360-091-3311
Side facing down		A	A		

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Equipment Table for Control Boxes 8150, for built-in components with mounting grid > 42 mm



Enclosure	Equipment configuration				Enclosure material	Ordering code	
08242E00 maximum options with built-in components with mounting grid > 42 mm such as: control switches 8008, ammeters 8405, control devices 8082 with actuators $\varnothing > 38$ mm							
Enclosure size 4	Dimensions [mm] a b c 176 116 91	Fig. 4.4 08925E00	Fig. 4.5 08926E00	Fig. 4.6 08927E00	Fig. 4.7 08928E00	1.4301 (AISI 304) 1.4404 (AISI 316L)	8150/5-0176-0116-091-2311 8150/5-0176-0116-091-3311
Side facing down		A	A	D	D		
Enclosure size 5	Dimensions [mm] a b c 176 176 91	Fig. 5.5 08957E00	Fig. 5.6 08958E00			1.4301 (AISI 304) 1.4404 (AISI 316L)	8150/5-0176-0176-091-2311 8150/5-0176-0176-091-3311
Side facing down		D	D				
Enclosure size 6	Dimensions [mm] a b c 236 176 91	Fig. 6.5 08959E00	Fig. 6.6 08940E00			1.4301 (AISI 304) 1.4404 (AISI 316L)	8150/5-0236-0176-091-2311 8150/5-0236-0176-091-3311
Side facing down		A	A				
Enclosure size 7	Dimensions [mm] a b c 360 176 91	Fig. 7.5 08945E00				1.4301 (AISI 304) 1.4404 (AISI 316L)	8150/5-0360-0176-091-2311 8150/5-0360-0176-091-3311
Side facing down		D					
Enclosure size 7	Dimensions [mm] a b c 360 176 91	Fig. 7.6 08946E00	Fig. 7.7 08947E00			1.4301 (AISI 304) 1.4404 (AISI 316L)	8150/5-0360-0176-091-2311 8150/5-0360-0176-091-3311
Side facing down		A	A				

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Series 8150



Enclosure		Equipment configuration		Enclosure material	Ordering code
		maximum options with built-in components with mounting grid > 42 mm such as: control switches 8008, ammeters 8405, control devices 8082 with actuators $\varnothing > 38$ mm			
Enclosure size 8	Dimensions [mm] a b c 360 360 91	Fig. 8.3	Fig. 8.4	1.4301 (AISI 304)	8150/5-0360-0360-091-2311
				1.4404 (AISI 316L)	8150/5-0360-0360-091-3311
Side facing down		D	D		
Enclosure size 9	Dimensions [mm] a b c 727 360 91	Fig. 9.4		1.4301 (AISI 304)	8150/5-0727-0360-091-2311
				1.4404 (AISI 316L)	8150/5-0727-0360-091-3311
Side facing down		D			
Enclosure size 9	Dimensions [mm] a b c 727 360 91	Fig. 9.5		1.4301 (AISI 304)	8150/5-0727-0360-091-2311
				1.4404 (AISI 316L)	8150/5-0727-0360-091-3311
Side facing down		D			

E4

Explosion Protection

Marking

IECEx	
Gas explosion protection	Ex II 2 G Ex d e ia/ib [ia/ib] ma mb q IIA, IIB, IIC T6, T5, T4 Gb
Dust explosion protection	Ex II 2 D Ex tb IIIC IP66 T130°C, T95°C, T80°C Db
Europe (ATEX)	
Gas explosion protection	Ex d e ia/ib [ia/ib] ma mb q IIA, IIB, IIC T6, T5, T4 Gb
Dust explosion protection	Ex tb IIIC IP66 T130°C, T95°C, T80°C Db

Certificates

IECEx	IECEx PTB 09.0049
Europe (ATEX)	PTB 09 ATEX 1109

Technical Data

Electrical data

Rated operational voltage	max. 1100 V AC / DC depending on explosion protected components used
Rated operational current	max. 630 A depending on explosion protected components used
Rated cross section	300 mm ² depending on explosion protected components used

Ambient conditions

Ambient temperature	- 60 ... + 85 °C ... depending on explosion protected components used
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Technical Data

Mechanical data	
Degree of protection	IP66 acc. to IEC/EN 60529 (depending on the built-in components used)
Material	
Enclosure	8150/5-.....-2....: stainless steel 1.4301 (AISI 304), brush finished 8150/5-.....-3....: stainless steel 1.4404 (AISI 316L), brush finished
Sealing gasket	Silicone, foamed
Flanges	
Standard	In the standard version, the enclosures are supplied without flanges.
Option	Depending on order requirements the enclosures can be installed on one or more sides with flanges; flange material: stainless steel
Cover fixing	
Standard	with captive M6 stainless steel combo head screws
Option	with cover hinges
Connection	Depending on order requirements at the built-in components or at the terminal blocks. The rated operational voltage, the rated operational current and the rated cross-section depend on the terminal type used and the explosion protected components.
Terminals	Permissible rated cross-section which can be used - max. 300 mm². The maximum number of terminals for the respective enclosure size is indicated in the EC Type Examination Certificate.
Tightening torque	according to specifications of the terminal block manufacturer

Dimensional Drawings (All Dimensions in mm) - Subject to Alterations

12648E00

Type	Width [mm]	Height [mm]	Depth [mm]	Overall depth [mm]	Fastening dimensions [mm]					
	E	F	G	H	a1	a2	b1	b2	c1	c2
8150/1-0176-0116-091	176,5	116,5	91	106	136	76	212	152	228	168
8150/1-0176-0176-091	176,5	176,5	91	106	136	136	212	212	228	228
8150/1-0236-0176-091	236,5	176,5	91	106	196	136	272	212	288	228
8150/1-0360-0176-091	360	176,5	91	106	320	136	396	212	412	228
8150/1-0360-0360-091	360	360	91	106	320	320	396	396	412	412
8150/1-0727-0360-091	727	360	91	106	687	320	763	396	779	412

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.