

Control Stations made of Stainless Steel

Series 8150/5



www.stahl.de



14111E00

- > 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



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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.

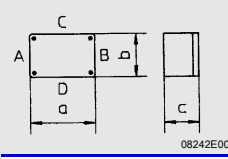
| Zone | ATEX / IECEx | | | | | |
|------------|--------------|---|---|----|----|----|
| | 0 | 1 | 2 | 20 | 21 | 22 |
| For use in | | x | x | | x | x |

WebCode 8150B

Control Stations made of Stainless Steel

Series 8150/5

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



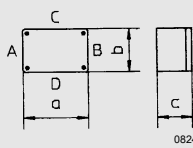
Equipment arrangement maximum equipment possibilities with built-in components for mounting grid 42 mm as: control devices 8082, indicating lamps 8010 and illuminated pushbuttons 8082/8010

Order Number

| | | |
|--|---|---|
| <p>Dimensions [mm]</p> <p>a b c</p> <p>176 116 91</p> | <p>Figure 4.1</p> | 8150/5-0176-0116-091-.311 |
| <p>Dimensions [mm]</p> <p>a b c</p> <p>176 176 91</p> | <p>Figure 5.1 Figure 5.2 Figure 5.3 Figure 5.4</p> | 8150/5-0176-0176-091-.311 |
| <p>Dimensions [mm]</p> <p>a b c</p> <p>236 176 91</p> | <p>Figure 6.1 Figure 6.2 Figure 6.3 Figure 6.4</p> | 8150/5-0236-0176-091-.311 |
| <p>Dimensions [mm]</p> <p>a b c</p> <p>360 176 91</p> | <p>Figure 7.1 Figure 7.2</p> | 8150/5-0360-0176-091-.311 |
| <p>Dimensions [mm]</p> <p>a b c</p> <p>360 360 91</p> | <p>Figure 8.1 Figure 8.2</p> | 8150/5-0360-0360-091-.3.1 |
| <p>Dimensions [mm]</p> <p>a b c</p> <p>727 360 150</p> | <p>Figure 9.1</p> | 8150/5-0727-0360-150-.311 |
| <p>Steel quality</p> <p>hinge + cam lock</p> | <p>1.4301</p> <p>1.4404</p> <p>without</p> <p>with</p> | <p>8150/-.....-.....-2...</p> <p>8150/-.....-.....-3...</p> <p>8150/-.....-.....-1.</p> <p>8150/-.....-.....-2.</p> |

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Equipment arrangement maximum equipment possibilities with built-in components for mounting grid 42 mm as: control devices 8082, indicating lamps 8010 and illuminated pushbuttons 8082/8010

Order Number

| | | | |
|------------------|------------|------------|--|
| Dimensions [mm] | Figure 9.2 | Figure 9.3 | 8150/5-0727-0360-150-.311 8150/5-0360-0727-150-.321 |
| a b c | | | |
| 727 360 150 | 14911E00 | 14912E00 | |
| Steel quality | 1.4301 | | 8150/5-.....-2... |
| | 1.4404 | | 8150/5-.....-3... |
| hinge + cam lock | without | | 8150/5-.....-1. |
| | with | | 8150/5-.....-2. |

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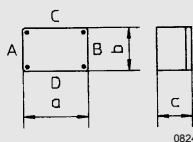
Equipment Table for Control Boxes 8150, for built-in components with mounting grid > 42 mm



8082 Control devices with actuators $\varnothing > 38$ mm

8008 Control switches

8405 Ammeter



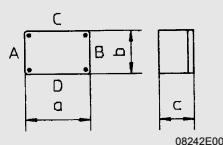
Equipment arrangement maximum equipment possibilities with built-in components for mounting grid 42 mm as: control switches 8008, ammeter 8405, control devices 8082 with actuators $d > 38$ mm

Order Number

| | | | | | |
|------------------|------------|------------|------------|------------|---------------------------|
| Dimensions [mm] | Figure 4.2 | Figure 4.3 | Figure 4.4 | Figure 4.5 | 8150/5-0176-0116-091-.311 |
| a b c | | | | | |
| 176 116 91 | 14913E00 | 14914E00 | 14915E00 | 14916E00 | |
| Dimensions [mm] | Figure 5.5 | Figure 5.6 | | | 8150/5-0176-0176-091-.311 |
| a b c | | | | | |
| 176 176 91 | 14917E00 | 14918E00 | | | |
| Dimensions [mm] | Figure 6.5 | Figure 6.6 | | | 8150/5-0236-0176-091-.311 |
| a b c | | | | | |
| 236 176 91 | 14940E00 | 14941E00 | | | |
| Steel quality | 1.4301 | | | | 8150/5-.....-2... |
| | 1.4404 | | | | 8150/5-.....-3... |
| hinge + cam lock | without | | | | 8150/5-.....-1. |
| | with | | | | 8150/5-.....-2. |

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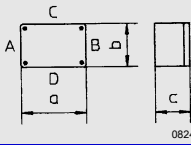
Equipment arrangement
maximum equipment possibilities with built-in components
for mounting grid 42 mm as:
control switches 8008, ammeter 8405,
control devices 8082 with actuators $d > 38$ mm

Order Number

| | | | |
|---|------------------------------------|------------------------------------|---|
| <p>Dimensions [mm]</p> <p>a b c</p> <p>300 200 150</p> | <p>Figure 10.1</p> <p>14919E00</p> | <p>Figure 10.2</p> <p>14920E00</p> | 8150/5-0300-0200-150-.311 |
| <p>Dimensions [mm]</p> <p>a b c</p> <p>360 176 91</p> | <p>Figure 7.3</p> <p>14921E00</p> | | 8150/5-0360-0176-091-.311 |
| <p>Dimensions [mm]</p> <p>a b c</p> <p>360 176 91</p> | <p>Figure 7.4</p> <p>14922E00</p> | <p>Figure 7.5</p> <p>14923E00</p> | 8150/5-0360-0176-091-.311 |
| <p>Dimensions [mm]</p> <p>a b c</p> <p>360 360 91</p> | <p>Figure 8.3</p> <p>14924E00</p> | <p>Figure 8.4</p> <p>14925E00</p> | 8150/5-0360-0360-091-.3.1 |
| <p>Dimensions [mm]</p> <p>a b c</p> <p>400 300 150</p> | <p>Figure 11.1</p> <p>14926E00</p> | <p>Figure 11.2</p> <p>14927E00</p> | 8150/5-0400-0300-150-.311 |
| <p>Dimensions [mm]</p> <p>a b c</p> <p>400 400 150</p> | <p>Figure 12.1</p> <p>14930E00</p> | <p>Figure 12.2</p> <p>14931E00</p> | 8150/5-0400-0400-150-.3.1 |
| <p>Dimensions [mm]</p> <p>a b c</p> <p>600 400 150</p> | <p>Figure 13.1</p> <p>14932E00</p> | <p>Figure 13.2</p> <p>14933E00</p> | 8150/5-0600-0400-150-.3.1 |
| <p>Steel quality</p> <p>1.4301</p> <p>1.4404</p> <p>hinge + cam lock</p> <p>without</p> <p>with</p> | | | <p>8150/-.....-.....-2...</p> <p>8150/-.....-.....-3...</p> <p>8150/-.....-.....-.1.</p> <p>8150/-.....-.....-.2.</p> |

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Equipment arrangement
maximum equipment possibilities with built-in components
for mounting grid 42 mm as:
control switches 8008, ammeter 8405,
control devices 8082 with actuators $d > 38$ mm

Order Number

| | | | |
|--|--|------------------------------------|---|
| <p>Dimensions [mm]</p> <p>a b c</p> <p>400 600 150</p> | <p>Figure 13.3</p> <p>14934E00</p> | <p>Figure 13.4</p> <p>14935E00</p> | <p>8150/5-0600-0400-150-.311</p> <p>8150/5-0400-0600-150-.321</p> |
| <p>Dimensions [mm]</p> <p>a b c</p> <p>727 360 150</p> | <p>Figure 9.4</p> <p>14936E00</p> | | <p>8150/5-0727-0360-150-.311</p> |
| <p>Dimensions [mm]</p> <p>a b c</p> <p>727 360 150</p> | <p>Figure 9.5</p> <p>14942E00</p> | | <p>8150/5-0727-0360-150-.311</p> |
| <p>Dimensions [mm]</p> <p>a b c</p> <p>600 600 150</p> | <p>Figure 14.1</p> <p>14928E00</p> | <p>Figure 14.2</p> <p>14929E00</p> | <p>8150/5-0600-0600-150-.3.1</p> |
| <p>Steel quality</p> <p>hinge + cam lock</p> | <p>1.4301</p> <p>1.4404</p> <p>without</p> <p>with</p> | | <p>8150/.....-2...</p> <p>8150/.....-3...</p> <p>8150/.....-1.</p> <p>8150/.....-2.</p> |

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Explosion Protection

Global (IECEX)

| | |
|--------------|--|
| Gas and dust | IECEX PTB 09.0049 Ex db eb ia [ia Ga] ib [ib] ma mb op pr op is qb IIA, IIB, IIC T6, T4, T3 Gb Ex tb IIIC IP6X T130°C, T95°C, T80°C Db |
|--------------|--|

Europe (ATEX)

| | |
|--------------|---|
| Gas and dust | PTB 09 ATEX 1109 ⊕ II 2 G Ex db eb ia [ia Ga] ib [ib] ma mb op pr op is qb IIA, IIB, IIC T6, T4, T3 Gb ⊕ II 2 D Ex tb IIIC IP6X T130°C, T95°C, T80°C Db |
|--------------|---|

Certifications and certificates

| | |
|--------------|--|
| Certificates | IECEX, ATEX, India (PESO), Canada (CSA, FM, UL), Kazakhstan (TR), Korea (KCs), Russia (TR), Serbia (SRPS), Taiwan (ITRI), Ukraine (TR), Belarus (TR) |
|--------------|--|

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 |
|---------------------|---|

Mechanical data

| | |
|----------------------|--|
| Degree of protection | IP65 acc. to IEC/EN 60529 (others on request) |
| Material | |
| Enclosure | 8150/5-...-...-2...: stainless steel 1.4301 (AISI 304), brush finished 8150/5-...-...-3...: stainless steel 1.4404 (AISI 316L), brush finished |
| Seal | 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 lock | |
| 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 mm ² . 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 |

