

Standard Enclosure for Remote I/O Series 7145



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19902E00

- > Stainless steel enclosure for installation in Zone 2
- > Standard versions - available in max. 3 weeks
- > Prepared for the installation of IS1+ Remote I/O
- > For up to 120 analog or 240 digital signals
- > Pre-configured with all accessories
- > Additional options and customer specific designs available.

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With the standard enclosures IS1+ we offer you a variety of pre-assembled field enclosures for installation in Zone 2 with shorter delivery times. The five versions are made of stainless steel 1.4301 (V2A) and contain, among other things, all entries, bus rails, cable ducts and connecting terminals for auxiliary power. After installation of the IS1+ components, the enclosures can be used in Zone 2 and do not require any acceptance or certification since they meet the requirements of EN 61439. Modifications, extensions or fully customer specific designs are available anytime on request.

Note: The standard enclosures are delivered without IS1+ modules

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

WebCode 7145F

Standard Enclosure for Remote I/O

Series 7145



Selection Table

Version	Dimensions (W x H x D)	Number of module slots	Max. number I/O signals (analog/digital)	Order number	Art. no.	Weight
	mm					kg
Standard enclosure for Remote I/O, Zone 2	360 x 750 x 230	6	40 / 80	IS1 RIO Station 360x750x230_6 Slot_Z2	260145	25.000
	600 x 600 x 230	8	56 / 112	IS1 RIO Station 600x600x230_8 Slot_Z2	260146	35.000
	360 x 1300 x 230	10	72 / 144	IS1 RIO Station 360x1300x230_10 Slot_Z2	260147	45.000
	760 x 760 x 300	12	88 / 176	IS1 RIO Station 760x760x300_12 Slot_Z2	260148	55.000
	800 x 1000 x 300	16	120 / 240	IS1 RIO Station 800x1000x300_16 Slot_Z2	260149	70.000

Note Weight and delivery without modules

Explosion Protection

Global (IECEx)

Gas IECEx TUR 15.0027
Ex ec ia ib [ia Ga, ic] IIC T4 Gc

Europe (ATEX)

Gas TÜV 18 ATEX 8178
⊕ II 3 (1) G Ex ec ia ib [ia Ga, ic] IIC T4 Gc

Certifications and certificates

Certificates IECEx, ATEX, India (PESO), EAC (Eurasian Economic Union)
Ship approval Available for customized versions:

Further parameters

Installation in zone 2
Further information refer to operating instructions and certificates of enclosures and IS1+ modules.

Technical Data

Electrical data

Rated operational voltage 24 V DC (19 to 32 V DC)
Rated current Depending on installed modules (see corresponding data sheet)
Connection Screw connection 0.2 to 10 mm² (4 x UT 6, 2 x UT 6-PE)
PE connection External M8 PE connection
Cable entries 2 x M32 x 1.5, black, polyamide, clamping range 9 to 21 mm² (R. STAHL type 8161/7-M32-2109)
Breather 1 x M25 breather, green, polyamide (R. STAHL type 8162/1-M25-1)

Ambient conditions

Ambient temperature -40 to +55 °C
Storage temperature -40 to +80 °C
Refer to the technical data in the corresponding data sheets of the IS1+ devices

Mechanical data

Degree of protection IP65
Material
Enclosure Stainless steel, brush finished 1.4301 (V2A, AISI 304)
Seal Silicone, foamed

Mounting / Installation

Assembly vertical or horizontal

Applicable IS1+ modules

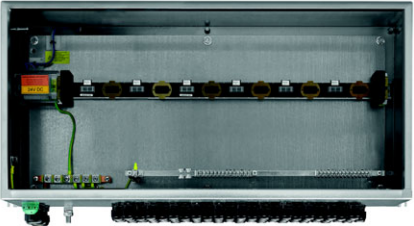
CPM 9440/15-01-11-C1198 (Modbus RTU)
CPU 9442/35-10-00 (multi-protocol)
(PROFIBUS DP V1 HART, PROFIBUS DP V1 HART for PNO redundancy, Modbus TCP, PROFINET, EtherNet/IP)
Note: CPU together with 9445/35 power module and 9496/35 socket
Power module 9445/35-12
Socket 9496/35-03 or 9496/35-04
I/O modules Types 9468/33, 9470/33, 9475/33, 9482/33, 9469/35, 9471/35, 9472/35

Note Installation of the IS1+ modules must be performed in accordance with the corresponding operating instructions of the modules. These can be found at r-stahl.com.

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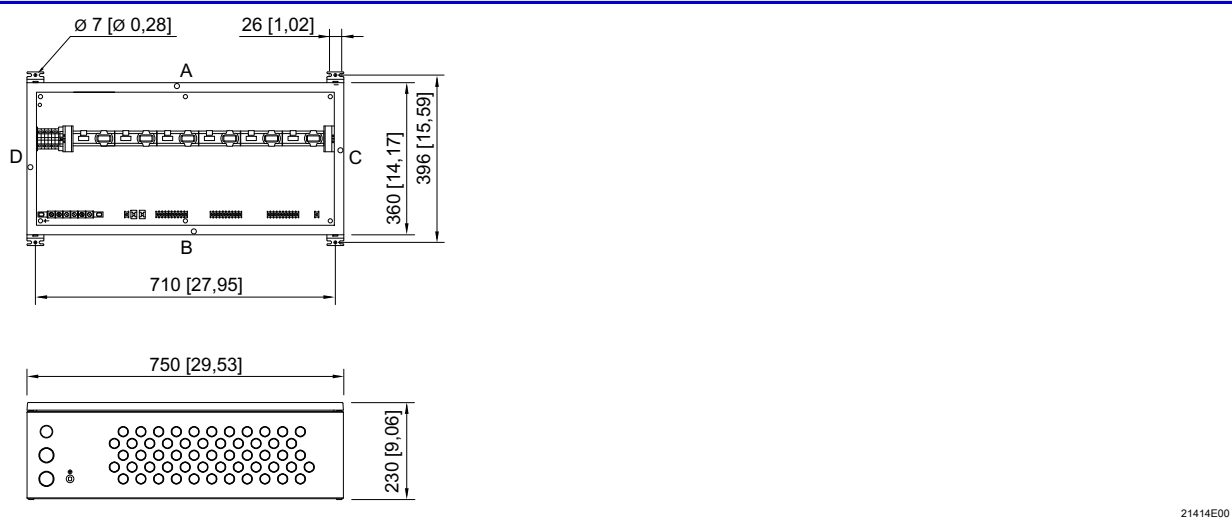


Technical Data

Version	IS1 RIO station 360 x 750 x 230 mm, 6 slots Zone 2
	
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Modules / signals	
Number of modules	1 x CPM (CPU and power module) and 5 x I/O module
Number I/O signals	max. 40 analog or 80 digital signals
Max. internal power dissipation	44 W
Built-in components	
IS1+ BusRail	for 6 slots, with 2 end pieces begin + end
Shield bus	1 x equipped with 2 x KLBÜ 3-8, 1 x AK16, 30 x AK4
Cable entries	
For bus/signals	60 x M20 x 1.5, black, polyamide, clamping range 4 to 13 mm (R. STAHL type 8161/7-M20-1304)
Front door	1 x opening upwards, 3 x cam locks, with cover support right

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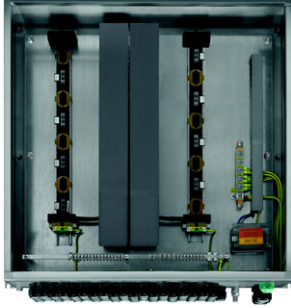
Dimensional drawings (all dimensions in mm [inches]) – Subject to modification



Standard Enclosure for Remote I/O Series 7145

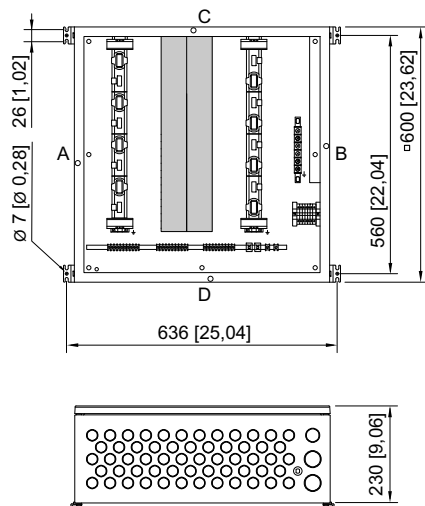


Technical Data

Version	IS1 RIO station 600 x 600 x 230 mm, 8 slots Zone 2 
Modules / signals Number of modules Number I/O signals Max. internal power dissipation	1 x CPM (CPU and power module) and 7 x I/O module max. 56 analog or 112 digital signals 48 W
Built-in components IS1+ BusRail Cable duct Shield bus Cable entries For bus/signals Front door	for 8 slots, with 2 end pieces begin + end, 1 x BusRail extension 2 x grey (100 x 60 mm), 1 x grey (60 x 25 mm) 1 x equipped with 2 x KLBÜ 3-8, 1 x AK16, 30 x AK4 58 x M20 x 1.5, grey, polyamide, clamping range 4 to 13 mm (R. STAHL type 8161/7-M20-1304) 1 x opening to the left, 5 x cam locks

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Dimensional drawings (all dimensions in mm [inches]) – Subject to modification



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Standard Enclosure for Remote I/O Series 7145



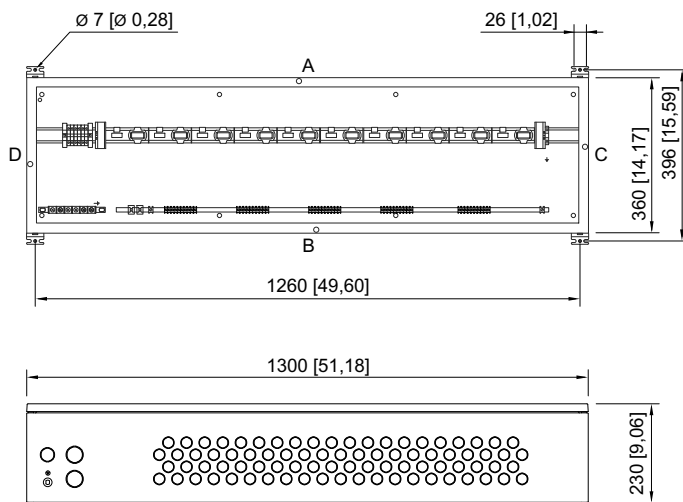
Technical Data

Version	IS1 RIO station 360 x 1300 x 230 mm, 10 slots Zone 2
Modules / signals	<p>Number of modules: 1 x CPM (CPU and power module) and 9 x I/O module</p> <p>Number I/O signals: max. 72 analog or 144 digital signals</p> <p>Max. internal power dissipation: 62 W</p>
Built-in components	<p>IS1+ BusRail: for 10 slots, with 2 end pieces begin + end</p> <p>Shield bus: 1 x equipped with 2 x KLBÜ 3-8, 1 x AK16, 50 x AK4</p> <p>Cable entries: 82 x M20 x 1.5, black, polyamide, clamping range 4 to 13 mm (R. STAHL type 8161/7-M20-1304)</p> <p>Front door: 1 x opening upwards, 4 x cam lock, 2 x cover support</p>

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Dimensional drawings (all dimensions in mm [inches]) – Subject to change

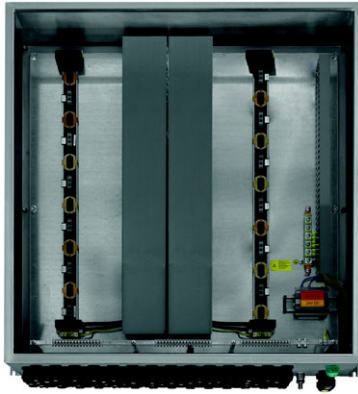


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Standard Enclosure for Remote I/O Series 7145

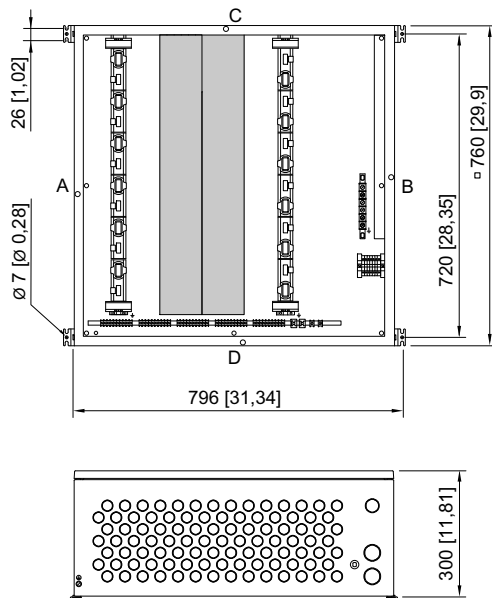


Technical Data

Version	IS1 RIO station 760 x 760 x 300 mm, 12 slots Zone 2 
Modules / signals Number of modules Number I/O signals Max. internal power dissipation	1 x CPM (CPU and power module) and 11 x I/O module max. 88 analog or 176 digital signals 71 W
Built-in components IS1+ BusRail Cable duct Shield bus Cable entries For bus/signals Front door	for 10 slots, with 2 end pieces begin + end, 1 x BusRail extension 2 x grey (100 x 80 mm), 1 x grey (60 x 25 mm) 1 x equipped with 2 x KLBÜ 3-8, 1 x AK16, 50 x AK4 98 x M20 x 1.5, black, polyamide, clamping range 4 to 13 mm (R. STAHL type 8161/7-M20-1304) 1 x opening to the left, 5 x cam lock

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Dimensional drawings (all dimensions in mm [inches]) – Subject to modification



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Standard Enclosure for Remote I/O Series 7145



Technical Data

Version	IS1 RIO station 800 x 1000 x 300 mm, 16 slots Zone 2
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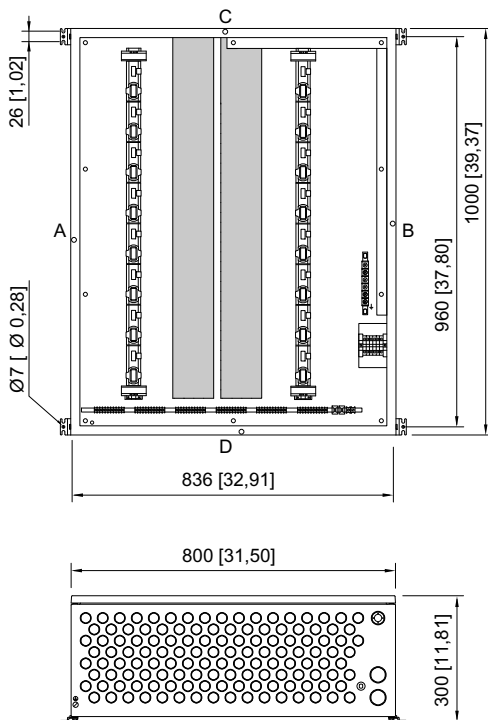
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Modules / signals	
Number of modules	1 x CPM (CPU and power module) and 15 x I/O module
Number I/O signals	max. 120 analog or 240 digital signals
Max. internal power dissipation	90 W

Built-in components	
IS1+ BusRail	For 16 slots, with 2 end pieces beginning + end and bus rail extension
Cable duct	2 x grey (100 x 100 mm), 1 x grey (60 x 25 mm)
Shield bus	1 x equipped with 2 x KLBÜ 3-8, 1 x AK16, 60 x AK4
Cable entries	
For bus/signals	130 x M20 x 1.5, grey, polyamide, clamping range 4 to 13 mm (R. STAHL type 8161/7-M20-1304)
Front door	1 x opening to the left, 6 x cam locks

Dimensional drawings (all dimensions in mm [inches]) – Subject to modification



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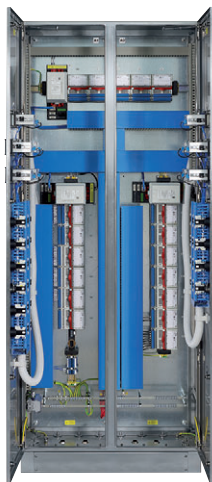
Standard Enclosure for Remote I/O Series 7145



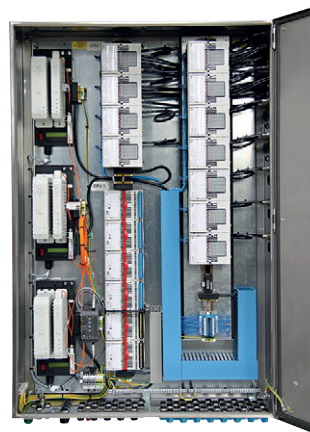
Special versions and options (longer delivery times)

Version	Available options
Installation	Zone 1 / 21 / 22 / Non-Ex
Enclosure	1.4404 (V4A, AISI 316L) / paint
Door / cover	Right door stop/without door holder/without cover support/glass in door
Heater	against condensation / for ambient temperature < -20 °C
Cable entries	Series EMSKE brass nickel-plated / Series 8163 in brass, brass nickel-plated or stainless steel for armoured cables
Sealing plugs	Series 8290 (polyamide); Series 8292 (brass, brass nickel-plated or stainless steel)
Flanges	3 mm / 5 mm
Tag label	Resopal / stainless steel - glued / screwed (+ text field)
Internal wiring	Halogen-free / single core marking
Auxiliary power	115 to 230 V AC, Zone 1/21 only
Redundancy	System redundancy (2 x CPM)
Fieldbus	Fibre optics
	Other versions and options on request

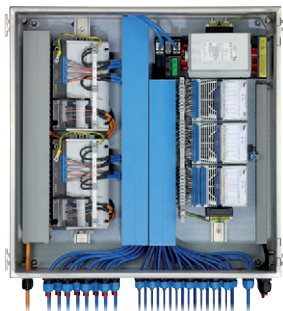
Customer-specific solutions - Examples (delivery times on request)



Zone 1 cabinet with double door and 3 Remote I/O systems



Zone 1 field station with Ethernet-Remote I/O and integrated valve terminal (DOMV series 9478)



Zone 1 field station with PROFIBUS DP Remote I/O and FF H1 fieldbus coupler



Zone 2 field station with front components and protective screen

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.