

pac-Carrier Type 9195

- pac-Carrier for 8 or 16 modules, up to 32 signals
- All standard ISpac isolators can be used
- Integration of Ex i and non-Ex i field circuits in one carrier
- Flexible engineering due to:
 - direct allocation between I/O module and pac-Carrier
 - simple connection to the HART management system
 - horizontal and vertical installation possible
 - installation possible in Zone 2 and Div. 2
- Easy and quick installation due to:
 - customized system cables to automation system
 - installation of the isolators without tools
 - installation of the carrier on DIN rail or mounting plate
- Low out of service time of the system due to:
 - redundant power supply with fault detection contact and exchangeable fuses
 - very robust chassis proven by the DNV approval for ship building



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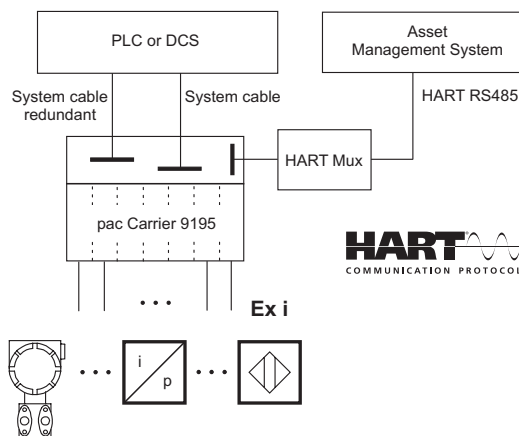
The pac-Carrier is an time and cost saving solution, whenever I.S. field devices need to be connected to frequently used I/O modules of DCS or PLC. The wiring on the safe side is reduced to the plug-in of a system cable and the installation of the isolators without tools.

The product family includes versions, which could be combined with the HART multiplexer. These version allow to establish the HART communication between field devices and the management system. New versions of the pac-Carrier can be easily and quickly generated.



	Zones					
	0	1	2	20	21	22
Ex i interfaces*	X	X	X	X	X	X
Installation in			X			X

* Interfaces Ex i by means of ISpac isolators



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Selection Table						
Version	I/O-cards type	Signal type	Number of slots	Connection HART-Multiplexer	Redundancy	Order number
pac-Carrier Type 9195 for Yokogawa ProSafe-RS	SAI 143	16 x AI	16	9192/32	yes	9195/16H-YO3-01V1
	SAI 533	8 x AO	8	9192/32	yes	9195/08H-YO3-06V1
	SAV 144	16 x AI	8	9192/32	yes	9195/08H-YO3-02V1
			16	9192/32	yes	9195/16H-YO3-02V1
	SDV 144 / 541	16 x DI / 16 x DO	8	no	yes	9195/08A-YO3-03A2
			16	no	yes	9195/16A-YO3-03A2
SDV 531	8 x DO	8	no	yes	9195/08A-YO3-04A2	
pac-Carrier Type 9195 for Yokogawa CS Centum 3000 R3	AAB 841	8 x AI + 8 x AO	8	9192/32	yes	9195/08H-YO1-05V1
	AAI 135	8 x AI	8	9192/32	yes	
	AAI 141	16 x AI	16	no	no	9195/16A-YO1-01D
			16 x AI + each AI 2nd output	16	no	no
	AAI 141 / 144	16 x AI	8	9192/32	yes	9195/08H-YO1-01V1
	SAI 143	16 x AI	8	9192/32	yes	9195/08H-YO3-01V1
	AAI 835	4 x AI / 4 x AO	8	9192/32	yes	9195/08H-YO1-09V1
	AAI 841	8 x AI + 8 x AO	8	9192/32	yes	9195/08H-YO1-04V1
			16	no	no	9195/16A-YO1-04D
	AAP 135	8 x DI (< 800 Hz)	8	no	no	9195/08A-YO1-10V1
			8	no	yes	9195/08A-YO1-11V1
	AAV 141	16 x AI	8	9192/32	yes	9195/08H-YO1-02V1
			16	no	no	9195/16A-YO1-02D
ADV 151 / 161	32 x DI	16	no	yes	9195/16A-YO1-06A2	
ADV 551 / 561	32 x DO	16	no	yes	9195/16A-YO1-07A2	
pac-Carrier Type 9195 for Emerson	VE4001S2T1B3 VE4002S1T1B3	2 x (8 x DI) or 2 x (8 x DO)	8	no	no	9195/08A-EP1-01A
	VE4001S2T1B3 VE4002S1T1B3 VE4003S2B4 VE4005S2B3	2 x (8 x DI) or 2 x (8 x DO) or 2 x (8 x AI) or 2 x (8 x AO)	8	no	no	9195/08A-EP1-02A
	VE4003S3B4	2 x (8 x AI)	8	no	no	9195/08A-EP1-03A
pac-Carrier Type 9195 universal	all	DI, DO, AI, AO	16	no	no	9195/16A-XX0-01C
				9192/32	no	9195/16H-XX0-01C

Customer specific versions for the following DCS: Yokogawa Centum CS, Yokogawa Pro-Safe-RS, Emerson Delta V, TRICONEX, Invensys.

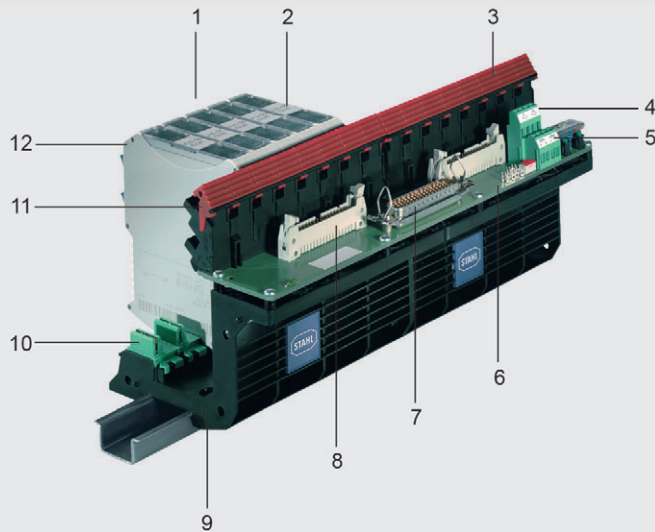
Detailed information about the available pac carrier versions as well as technical documentation you may download from the internet at www.ispac.info. Engineering and shipment of new versions within 6 weeks.

Technical Data																									
Certificates	BVS 03 E 213 X																								
Explosion protection	⊕ II 3 G EEx nAC II T4																								
Installation	In Zone 2, Div. 2 and in the safe area																								
Power supply	Nominal voltage U_N 24 V DC Voltage range 19 V ... 31.2 V Residual ripple < 3.6 V _{pp} Redundant supply yes, decoupled with diodes Indication 2 LED green „PWR1“; „PWR2“ Fuse 2 x TR5; T 2.0 A; exchangeable, for primary and redundant supply Polarity reversal protection yes																								
Connection field devices	Connection at the terminals of the I.S. isolators (specification see module data sheets) Number of channels 8, 16, 32																								
Connection automation system	Connection System specific plug (Sub-D, Elco, etc.) Number of channels up to 32																								
HART interface	Connection <ul style="list-style-type: none"> via connection automation system via HART-Multiplexer 9192 (only at 9195/..H-....) 																								
Error messaging	Power supply failure PF Contact (35 V / 100 mA), closed in good conditions Line fault LF (of IS pac modules) Contact (35 V / 100 mA), closed in good conditions Setting switch „SP“ Power failure message suppressed for redundant supply (for single supply) Setting switch „LFS“ Line fault message suppressed																								
Electromagnetic compatibility	Tested under the following standards and regulations: EN 61326-1 Use in industrial environment; NAMUR NE 21																								
Ambient conditions	Ambient temperature - 20 °C ... + 70 °C (any mounting position, pay attention of the I.S. isolators specification) Storage temperature - 40 °C ... + 80 °C Relative humidity (no condensation) ≤ 95 %																								
Mechanical data	<table border="0"> <tr> <td></td> <td>9195/08.-...-...</td> <td>9195/16.-...-...</td> </tr> <tr> <td>Weight</td> <td>approx. 320 g</td> <td>approx. 610 g</td> </tr> <tr> <td>Mounting type</td> <td colspan="2">on DIN rail, EN 50022 (NS35/15; NS35/7.5) or mounting plate (4 x screw M 6)</td> </tr> <tr> <td>Mounting position</td> <td colspan="2">horizontal or vertical</td> </tr> <tr> <td>Casing protection class</td> <td colspan="2">IP 00</td> </tr> <tr> <td>Terminal protection class</td> <td colspan="2">IP 20</td> </tr> <tr> <td>Casing material</td> <td colspan="2">PA 6.6</td> </tr> <tr> <td>Fire protecting class (UL-94)</td> <td colspan="2">V0</td> </tr> </table>		9195/08.-...-...	9195/16.-...-...	Weight	approx. 320 g	approx. 610 g	Mounting type	on DIN rail, EN 50022 (NS35/15; NS35/7.5) or mounting plate (4 x screw M 6)		Mounting position	horizontal or vertical		Casing protection class	IP 00		Terminal protection class	IP 20		Casing material	PA 6.6		Fire protecting class (UL-94)	V0	
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Technical Data



Construction drawing



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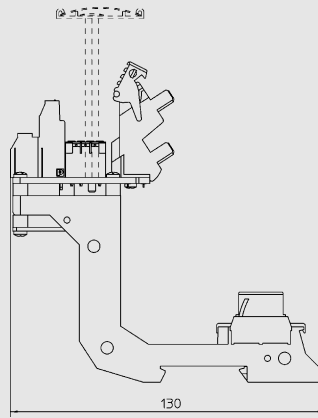
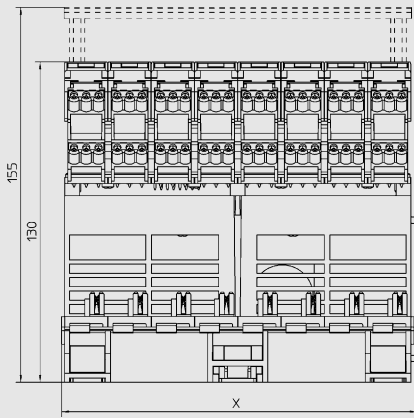
1. Carrier for 8 or 16 modules (32 channels)
2. Labeling for module, slot and carrier
3. Ejector mechanism (with screw driver)
4. Redundant and fused supply
5. Power supply failure and line fault signalling via relay
6. System specific PCB
7. System specific plugs
8. Signal duplication and / or connection HART-Multiplexer
9. For hat-rail or mounting plate
10. Integrated pac-Bus for power supply and line-fault signalling
11. Secure snap-in mechanism, without tool
12. Single slot, any signal mixture

Accessories and Spare Parts

Designation	Illustration	Description	Order number	Weight kg
Non-Ex i Termination Module	 06314E00	The termination module is used to integrate non-Ex i field circuit into the system integration solution pac-carrier type 9195. In such a way it enables a flexible mixture of Ex i and non-Ex i field circuits.	9191 / 20-00-50s	0,060
ISpac Dummy Module	 07091E00	The Dummy module is used for the connection of unused cable. There is no electrical connection between input and output terminal.	9191 / 20-00-00	0,060



Dimension drawing (all dimensions in mm) - subject to alterations



09826E00

Type		Wide x
9195/08.-...-...	8 slots	144 mm
9195/16.-...-...	16 slots	286 mm

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

