

A6500-RR Redundant Relay Rack

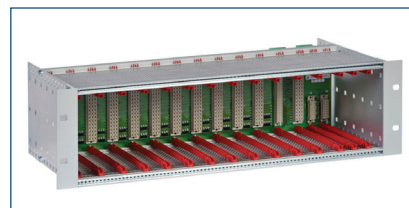
The A6500-RR Redundant Relay Rack is part of the CSI 6500 ATG machinery protection system. It is a 19" rack (84HP width and 3RU height). The System Rack allows you to install up to 9 protection cards (two channel A6500-UM Universal Measuring Card and/or four channel A6500-TP Temperature Process Card), two redundant A6500-RC Relay Cards, and one A6500-CC Com Card — two Com Cards for redundant communication.

The rear of the System Rack is equipped with screw term connectors to connect input and output signals, with D-Sub connectors to provide sensor raw signals and slide switches to configure key-signals and binary inputs.

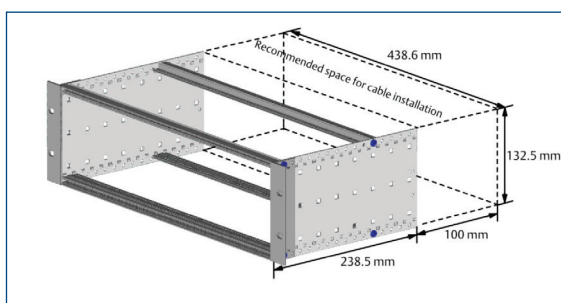
Each of the 9 slots for protection cards has four eight-pole screw term connectors for connecting several sensor types (eddy current sensors, piezoelectric sensors, seismic sensors, RTDs, etc.), binary inputs, binary outputs (function outputs), current outputs, and pulse outputs. The available number of measuring channels and all other functions depend on the installed cards.

The relay card slots have 12 shared digital inputs available on backplane with screw term connectors.

You can extend the system with a second System Rack to a 6RU system. In this case, the Com Card(s) of the first rack are used for both System Racks.



POWER SUPPLY		
Nominal supply voltage	+24 V DC	redundant
Limit	+19 to +32 V DC	in case of a single failure, supply voltage must not exceed the level of IEC 60204-1 or IEC 61131-2 (SELV/PELV)
Power consumption of slots	<100 W	of installed cards
Power consumption outputs	<150 W	additional supply for external
SLOT DISTRIBUTION		
Number of measurement card Slots (A6500-UM and A6500-TP)	9 (each slot 6HP)	
Number of Relay Card slots	2 (each slot 10HP, redundant)	
Number of COM Card slots	2 (each slot 4HP, redundant)	



ENVIRONMENTAL, GENERAL		
Protection Class	IP20	according to IEC 60529 rack mounted, otherwise IP00
Operating Temperature	-20°C to +70°C (-4°F to 158°F)	
Storage Temperature	-40°C to +85°C (-40°F to 185°F)	
Relative Humidity	5 to 95%	non-condensing
Vibration	0.15mm (0.591in) 20 m/s ²	10 to 55Hz 55 to 150Hz according to IEC 60068-2-6
Shock	150 m/s ²	according to IEC 60068-2-27, 4000 shocks per axis
Operating Altitude	<2000 m	above sea level
Connector measurement card slot	type F48 female	according to IEC 60603-2
Connector relay card slot	type C96 female type F48 female	according to IEC 60603-2
Connector COM card	type C30 female	according to IEC 60603-2
Terminals power supply	2.5 mm ²	pluggable screw term connection
Terminals I/O	1.5 mm ²	pluggable screw term connection
SUB-D connector	SUB-D 9	shielded, UNC 4-40 screw lock
Dimensions	3RU/84HP	conform to IEC 60297
Weight	app 2400g (5.291lbs)	exclusive packaging

Compliance and Certifications

CE	EMC – EN61326-1 2014/30/EU 2014/34/EU 2011/65/EU
ATEX	EN 60079-0:2012 EN 60079-15:2010
IEC-Ex	IEC 60079-0:2011; Edition: 6.0 IEC 60079-15:2010; Edition: 4
CSA	CAN/CSA-C22.2 NO. 0-10 CAN/CSA-C22.2 NO. 61010-1-12 CAN/CSA-C22.2 NO. 60079-0:15 CAN/CSA-C22.2 NO. 60079-15:12 IEC 60529:2013 + COR2:2015 UL 61010-1:12 UL 60079-0:13 UL 60079-15:13
Marine	DNV GL rules for classification – Ships and offshore units

Hazardous Area Approvals

NON-SPARKING NA IN COMBINATION WITH NC	
ATEX	II 3G – Ex nAnC IIC Gc, $-20^{\circ}\text{C} \leq T_s \leq 70^{\circ}\text{C}$ (with $T_s \leq 70^{\circ}\text{C}$ the requirements for temperature class T4 are met)
IEC-Ex	II 3G – Ex nAnC IIC Gc, $-20^{\circ}\text{C} \leq T_s \leq 70^{\circ}\text{C}$ (with $T_s \leq 70^{\circ}\text{C}$ the requirements for temperature class T4 are met)
CSA	Class I Division 2, Groups A, B, C, D, T4 Class 1, Zone 2 Ex / AExnAnC IIC T4 Gc (the ambient temperature within the end use enclosure shall not exceed 55°C)

Ordering Information

MODEL NUMBER	PRODUCT DESCRIPTION
A6500-RR	A6500-RR – REDUNDANT RELAY RACK, 9 UM, 2 RC, 2 CC SLOTS

Product Accessories

MODEL NUMBER	PRODUCT DESCRIPTION
A6068	REDUNDANT POWER SUPPLY 100-220VAC, 24VDC
MHM-6XXX-RC-CABLE	RACK CONNECTION CABLE, SUB-D CON, 9-P, 1M

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