

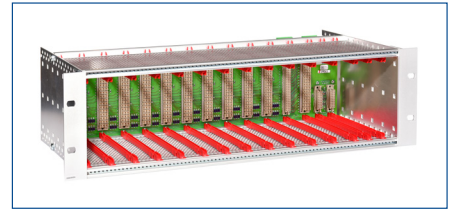
A6500-SR System Rack

The A6500-SR System Rack is part of the AMS 6500 ATG machinery protection system. It is a 19" rack (84HP width and 3RU height). The System Rack allows you to install up to 11 protection cards (two channel A6500-UM Universal Measuring Card and/or four channel A6500-TP Temperature Process Cards), one 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 push-in spring cage 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 11 slots for protection cards has four eight-pole spring cage 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.

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	+24V DC	redundant
Limit	+19 to +32V 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	<100W	of installed cards
Power Consumption Outputs	<150W	additional supply for external use of digital outputs
Slot Distribution		
Number of Measurement Card Slots (A6500-UM and A6500-TP)	11 (each slot 6HP)	
Number of Relay Card Slots	1 (each slot 10HP)	
Number of COM Card Slots	2 (each slot 4HP, redundant)	

Environmental, General		
Protection Class	IP20	according to IEC 60529 rack mounted, otherwise IP00
Conformal Coating	Airborne contaminants resistance	ISA-S71.04-1985 airborne contaminants class G3
	Material: HumiSeal® 1B31 EPA	According to IPC-CC-830B and IPC-A 610
Operating Temperature	-20°C to +70°C (-4°F to 158°F) with forced cooling -20°C to +55°C (-4°F to 131°F) without forced cooling	
Storage Temperature	-40°C to +85°C (-40°F to 185°F)	
Relative Humidity	5 to 95%	non-condensing
Vibration	0.15mm (0.591In) 20m/s ² 0 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	<2000m	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	2.5mm ²	pluggable push-in spring cage connection
Terminals I/O	1.5mm ²	pluggable push-in spring cage 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 CCOE PESO India	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
EAC	TP TC 012/2011 ГОСТ 31610.0-2014 ГОСТ 31610.15-2014
CCC	GB 3836.1-2010 GB 3836.8-2014
Marine	DNV GL rules for classification – Ships and offshore units
Safety (SIL): SC 2 (SIL 2 Capable)	IEC 61508:2010 Parts 1-7

Hazardous Area Approvals

Non-sparking nA in combination with nC	
ATEX	II 3G – Ex nA nC 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 nA nC 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 / AEx nA nC IIC T4 Gc (the ambient temperature within the end use enclosure shall not exceed 55°C)
EAC-Ex	Ex nA nC IIC Gc,U $-20^{\circ}\text{C} \leq T_s \leq 70^{\circ}\text{C}$
CCC-Ex	Ex nA nC IIC Gc $-20^{\circ}\text{C} \leq T_s \leq 70^{\circ}\text{C}$
CCOE PESO India	Ex nA nC IIC T4 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)
KTL Korea	Ex nA nC IIC $-20^{\circ}\text{C} \leq T_s \leq 70^{\circ}\text{C}$

Ordering Information

Model Number	Product Description
A6500-SR	A6500-SR - SYSTEM RACK, 11 UM, 1 RC, 2 CC SLOTS

Product Accessories

Model Number	Product Description
A6068	REDUNDANT POWER SUPPLY 100-220V AC, 24V DC
MHM-6XXX-RC-CABLE	RACK CONNECTION CABLE, SUB-D CON, 9-P, 1M

©2022, Emerson. All rights reserved.

The Emerson logo is a trademark and service mark of Emerson Electric Co. The AMS logo is a mark of one of the Emerson family of companies. All other marks are the property of their respective owners.

The contents of this publication are presented for informational purposes only, and while diligent efforts were made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.

Contact Us

 www.emerson.com/contactus