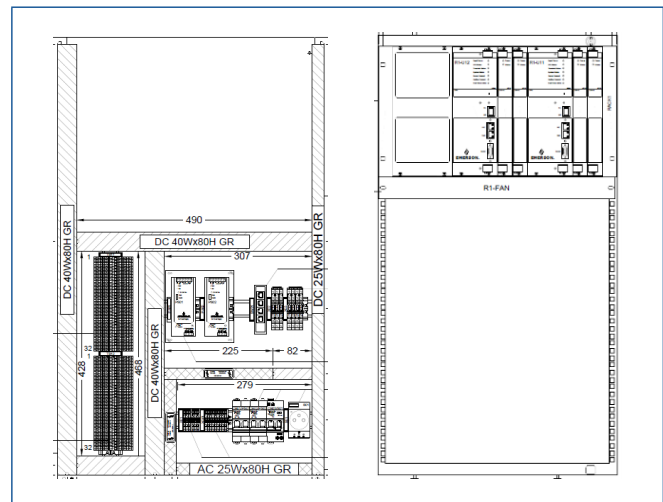


# AMS 6500 Prediction Enclosures

- Significantly reduces cabinet design engineering
- Fully documented drawing package



AMS 6500 Prediction Enclosure for A6500PRE-48 standard rack.

## Introduction

The AMS 6500 prediction field mount enclosures provide a pre-designed solution for AMS 6500 online prediction systems to be installed in industry standard enclosures. The enclosures provide an off-the-shelf solution for faster project execution and reduced installation cost.

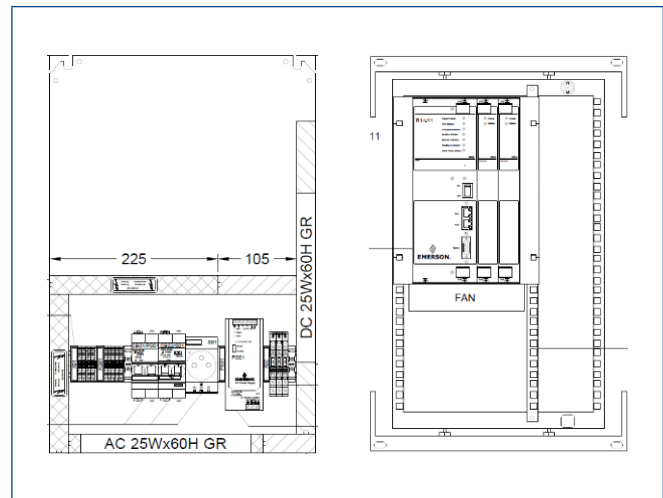
These designs seamlessly integrated into the overall hardware solution of a Machinery Prediction Project.

## Ready to work when you are

The AMS 6500 field mount enclosure offering comprises a range of pre-engineered solutions based on industry accepted designs, pre-installed with AMS 6500 online prediction unit monitor system and related equipment ready to be installed in an equipment room and ready to be connected to field sensors.

The enclosures are intended for mounting areas, where the temperature and humidity are within the requirements for the electronic equipment. They come ready to receive incoming plant AC power. All the internal wiring to power distribution components and grounding conductors has been tested at the factory.

Before delivery, each cabinet undergoes a full in-house inspection, to assure it is fully operational before shipping directly to site.



AMS 6500 Prediction Enclosure for A6500MS-24 standard rack.

The enclosures are designed for easy bottom cable entry, via removable gland plate and house the AMS 6500 system racks, cooling fan, power supply units, network switches.

The enclosures are ordered by selecting a base enclosure model, on top of which one or more predefined options are configured to meet specific project needs.

Base enclosure models are available:

- Enclosure shall be Wall mount with swing frame
- Configurable examples: Type of A6500MS-24, A6500MS-48, or A6500PRE-24 system racks

All enclosures come with following equipment installed:

- Primary 220-240VAC power distribution for Emerson AC to DC power supplies (priced separately) and socket
- Primary and/or secondary 24VDC power distribution for system rack, rack fan, network switch
- Halogen-Free Wire ducts
- Grounding connections
- AMS 6500 Prediction units based on the specific project configuration (priced separately): including 24 or 48 channel
- Halogen-Free Wire ducts
- Grounding connections
- AMS 6500 Prediction units based on the specific project configuration (priced separately): including 24 or 48 channel

## Benefits

**Standardized enclosure designs.** The enclosures deliver the full benefits of marshalling. These designs meet recommended installation practices of Machinery Prediction System, and each is tested before shipping. The flexibility of the either 24 or 48 Channels allows for 100% utilization of channels, regardless of the I/O signal counts. Late changes can be easily accommodated with minimal re-engineering efforts.

**Fast delivery.** Standard cabinets have a short lead time when ordered to shipment to site.

**IO Flexibility.** The 24 and 48 Channel configurations gives IO count flexibility of monitoring signals.

**Significant reduction in cabinet design engineering.** The IO count flexibility allows vibration, temperature and process signals assigned to prediction modules which helps to rationalize the I/O's to specific module and preserves I/O flexibility to handle the late changes to the system.

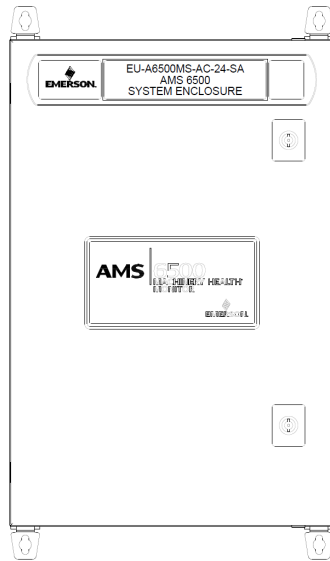
**Fully documented drawing package.** Each enclosure is supplied with full documentation showing internal lay-out, bill of materials, and internal wiring. Drawings can be incorporated into the project drawing package.

## Ordering Information

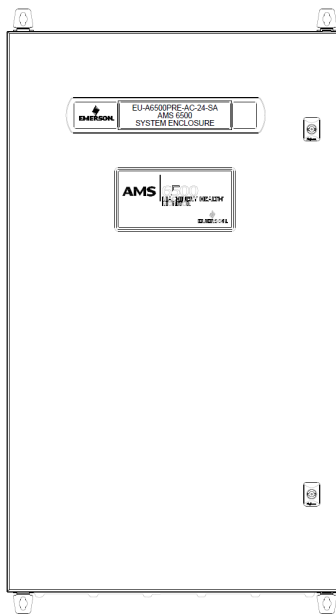
Description	Model Number								
World Area Design standards and regulations	<b>X</b>	-	X	-	X	-	X	-	X
Europe	EU								
Online Platform	X	-	<b>X</b>	-	X	-	X	-	X
AMS 6500MS AMS 6500PRE			A6500MS A6500PRE						
Input Voltage	X	-	X	-	<b>X</b>	-	X	-	X
AC Power Distribution					AC				
Number of IO's	X	-	X	-	X	-	<b>X</b>	-	X
24 – 24 Channel 48 – 48 Channel* (*Option Not Available for MS Variants)							24 48*		
Permitted Location	X	-	X	-	X	-	X	-	<b>X</b>
Safe Area									SA
Typical Order number – Example 1	EU	-	A6500MS	-	AC	-	24		SA
	EU-A6500MS-AC-24-SA								
Typical Order number – Example 2	EU	-	A6500PRE	-	AC	-	48		SA
	EU-A6500PRE-AC-48-SA								

## Enclosure Specifications

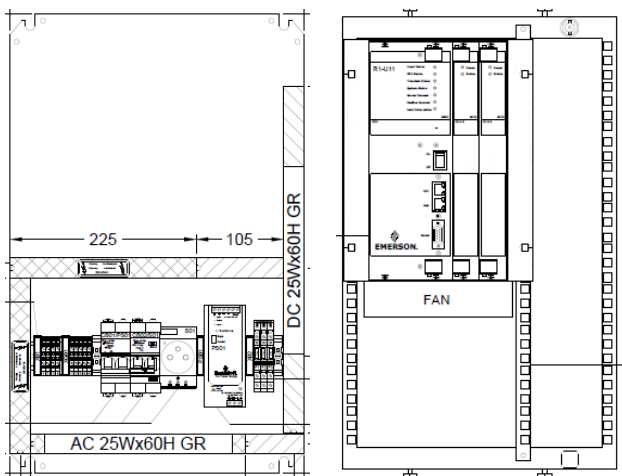
### AMS 6500 Prediction Enclosure Outer General Arrangement

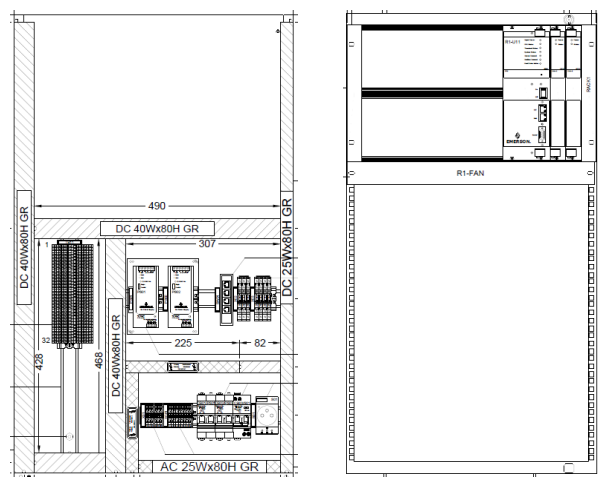


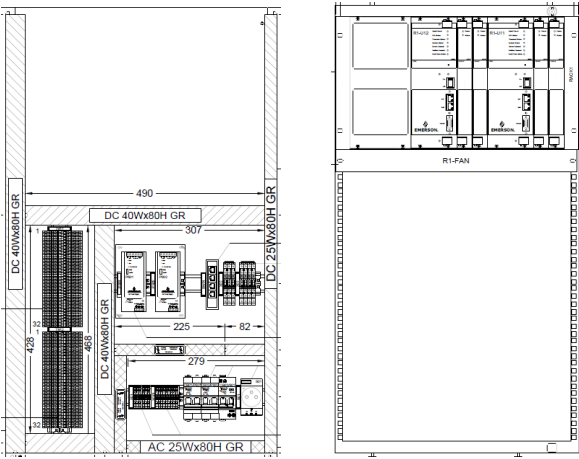
EU-A6500MS-AC-24-SA  
400 (W) x 600 (H) x 350 (D) mm



EU-A6500PRE-AC-24-SA, EU-A6500PRE-AC-48-SA  
600 (W) x 1000 (H) x 400 (D) mm

EU-A6500MS-AC-24-SA	
Ambient Temperature Range	0°C to +50°C
Material	Stainless Steel 304
Dimensions	400mm (W) x 600mm (H) x 350mm (D)
Access	Single door, left or right hand hinged, swing frame for backplane connector access
Protection Category	IP 55 TYPE 4, 4X, 12, 13
Cable Entry	Bottom Removable gland plate Drilling cost not included. Holes to be drilled as per project requirements by end user
Name Plate	Outside Door: Laser engraved plastic and Emerson Label
Weight	~60kg
Power Requirements – Internal Power Distribution.	220-240VAC power to be supplied by customer. Includes 24VDC distribution through power terminals and circuit breakers.
Control Network	None
 <p style="text-align: center;"><i>Example Layout and Installed A6500MS-24 Equipment</i></p>	<p>This field enclosure has space for 2 I/O Modules, including:</p> <ul style="list-style-type: none"> <li>■ AMS 6500 PREDICTION ONLY, 7.5IN WIDE SUBRACK, 24CH</li> </ul>
Other	Mounting plate, Halogen-Free wire ducts, external wall mounting brackets, door clamps, ground bars, external grounding bolt.

EU-A6500PRE-AC-24-SA	
Ambient Temperature Range	0°C to +50°C
Material	Stainless Steel 304
Dimensions	600mm (W) x 1000mm (H) x 400mm (D)
Access	Single door, left or right hand hinged, swing frame for backplane connector access
Protection Category	IP 55 TYPE 4, 4X, 12, 13
Cable Entry	Bottom Removable gland plate Drilling cost not included. Holes to be drilled as per project requirements by end user
Name Plate	Outside Door: Laser engraved plastic and Emerson Label
Weight	~100kg
Power Requirements – Internal Power Distribution.	220-240VAC power to be supplied by customer. Includes full redundant (primary and secondary). 24VDC distribution through power terminals and circuit breakers.
Control Network	Network switch: Unmanaged ethernet switch, 4 x 10/100BASE-TX, TP- cable, RJ45 sockets
 <p><i>Example Layout and Installed A6500MR-24 Equipment (*).</i></p>	<p>This field enclosure has space for 2 I/O Modules, including:</p> <ul style="list-style-type: none"> <li>AMS 6500 PREDICTION ONLY 24CH, WTR</li> </ul>
Other	Mounting plate, Halogen-Free wire ducts, external wall mounting brackets, door clamps, ground bars, external grounding bolt.

EU-A6500PRE-AC-48-SA	
Ambient Temperature Range	0°C to +50°C
Material	Stainless Steel 304
Dimensions	600mm (W) x 1000mm (H) x 400mm (D)
Access	Single door, left or right hand hinged, swing frame for backplane connector access
Protection Category	IP 55 TYPE 4, 4X, 12, 13
Cable Entry	Bottom Removable gland plate Drilling cost not included. Holes to be drilled as per project requirements by end user
Name Plate	Outside Door: Laser engraved plastic and Emerson Label
Weight	~110 kg
Power Requirements – Internal Power Distribution.	220-240VAC power to be supplied by customer. Includes full redundant (primary and secondary). 24VDC distribution through power terminals and circuit breakers.
Control Network	
 <p><i>Example Layout and Installed A6500MR-24 Equipment (*).</i></p>	<p>This field enclosure has space for 4 I/O Modules, including:</p> <ul style="list-style-type: none"> <li>AMS 6500 Prediction only 48CH, Rear Termination</li> </ul>
Other	Mounting plate, Halogen-Free wire ducts, external wall mounting brackets, door clamps, ground bars, external grounding bolt.

## Power Calculations

It is advised to calculate power requirements for each individual enclosure with the actual I/O quantity and card type.

## Certifications

- CE

## Contact us

For questions related to specific project quotations or order processing, please contact your local Emerson Sales office or your regional Emerson assembly center:

For Europe (iCenter Cluj): Cabinets.[Quotes@Emerson.com](mailto:Quotes@Emerson.com)

## Project Customizations

Please work with your local Emerson Sales office or regional Emerson assembly center to evaluate any impacts of requested customizations to cost.

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