A6500-UM

Universal Two-Channel Machinery Measurement Card

Complete product-page dossier for buyer review, technical screening and quotation preparation.

01 Product overview

A6500-UM conditions two configured machinery signals and applies channel-specific measurement, alarm and voting logic within the AMS 6500 protection rack.

Universal channel assignment

Two channels are configured for the approved transducer type and machinery variable.

On-card protection logic

Alert, danger, channel-OK and voting behavior are evaluated within the protection system.

Live diagnostic access

Buffered signals and status support commissioning and fault isolation without changing the machine channel.

A6500-UM is a two-channel universal measurement card for the AMS 6500 machinery-protection rack. Channel function depends on the configured transducer, range, filtering, alarm logic and rack assignment.

The card processes dynamic or position signals and exposes measurement, status and buffered outputs to the protection architecture. A replacement must receive the verified parameter set rather than a default channel template.

Before exchange, export the rack configuration and collect gap, baseline and alarm-state evidence. After fitting, verify card recognition, sensor supply, channel OK, static values, dynamic response and configured relay logic.

02 Buyer identity

Manufacturer part number	A6500-UM
Product type	Universal Two-Channel Machinery Measurement Card
System / platform	AMS 6500 machinery protection system
Lifecycle statement	Current documented AMS 6500 measurement card

03 Published technical data

Measurement channels	2
Board format	100 mm x 160 mm
Rack width	6 HP
Rack height	3 RU

Power consumption	6 W maximum
Protection degree	IP20
Operating temperature	-20 to +70 deg C
Storage temperature	-40 to +85 deg C

Relative humidity	5 to 95%, non-condensing
Vibration resistance	1 mm peak-to-peak at 2 to 13.2 Hz; 0.7 g at 13.2 to 150 Hz
Shock resistance	15 g, 11 ms

04 Applications / compatibility

Relative shaft vibration

Process compatible eddy-current transducer signals for machinery protection.

Axial or radial position

Track static displacement within the approved sensor and scale relationship.

Bearing vibration

Condition compatible seismic-sensor signals under the selected measurement mode.

Rack modernization and service

Restore two configured channels with their alarm and voting relationships.

05 Product precautions

Export both channels

Retain transducer, range, filters, alarms and voting.

Record rack assignment

Capture slot, neighboring cards and relay logic.

Preserve sensor evidence

Measure supply, gap and baseline before removal.

Use ESD handling

Protect the board and backplane contacts.

Load only the approved configuration

Do not copy a neighboring channel template.

Prove protection behavior

Verify OK, alert, danger and configured voting.

06 Lifecycle, available unit and technical notes

Lifecycle Status

Current documented AMS 6500 measurement card. Load the verified two-channel configuration and compare live signals before enabling protection logic; a default universal-card setup is not acceptable.

Available Unit Details

Offered reference: Emerson A6500-UM. Verify the A6500-UM marking, rack slot, channel assignments, installed transducer families and saved configuration version. Confirm the measurement card and any explicitly quoted rack connector or extraction accessory in the quotation.

Technical notes

Channel-definition archive: Export transducer type, scale, filter, thresholds, delays, latching and voting separately for both channels. Live-signal comparison: Compare sensor supply, bias or gap and buffered waveform with the accepted machine baseline. Protection-chain release: Prove channel OK, alert, danger and configured relay action before restoring automatic operation.

07 Engineering FAQ

Which configuration items make the two channels of A6500-UM different?	Transducer type, sensitivity, range, filter, alarm thresholds, delays, latching and voting can all differ by channel.
How should the pre-removal baseline for A6500-UM be recorded?	Capture sensor supply, static gap or bias, dynamic amplitude, phase where used, channel OK and active alarm states.
Why is a default configuration unsafe for A6500-UM?	The card is universal; a default may apply the wrong transducer scale, measurement mode or protection thresholds.
What does a channel-not-OK state on A6500-UM require?	Check sensor supply, wiring, transducer gap, configured limits and the card input before changing alarm settings.
How should buffered outputs from A6500-UM be used during commissioning?	Compare the live waveform with the machine baseline and rack measurement without disturbing the protection path.
What rack evidence should accompany A6500-UM?	Retain slot number, firmware or revision, rack configuration version, companion relay logic and approved machinery channel list.
How are alert and danger functions of A6500-UM proven?	Inject or simulate only approved signal levels and confirm threshold, delay, latch, reset and relay-voting response.
Which protection-channel results are required before releasing A6500-UM?	Require stable channel OK, correct static and dynamic readings, verified alert and danger action, relay-voting response and an archived final configuration.

08 Quotation and handover

Match the complete marking	Match A6500-UM, revision and visible labels.
Review the reference	Send the complete A6500-UM marking, label photos and required quantity.
Confirm the offer	Review the offered revision, condition, included items and documents for A6500-UM.
Arrange dispatch	Confirm quantity, dispatch date and delivery details for A6500-UM in the quotation.

09 Separate verified listings

GE IS215VCMIH2CC
VME Communications Interface Board; separate listing, not an automatic substitute.

HIMA Z7127
Eight-Channel Analog Input Front Cable Plug; separate listing, not an automatic substitute.

Request current photographs and written quotation details from Apter Power.
sales13@apterpower.com | +86 18030235313
Quote the complete reference: A6500-UM