APTER POWER

INDUSTRIAL AUTOMATION PRODUCT

A6370D

Overspeed Monitor

Emerson A6370D is a one-channel speed monitor with display for the AMS 6300 SIS overspeed protection system. Three monitors can be used with the system backplane and terminal hardware to implement independent speed channels and voted protection logic.

IDENTITY	VERIFIED VALUE
Manufacturer	Emerson
Complete model	A6370D
Product role	Overspeed Monitor
System family	AMS 6300 SIS
Country of origin	USA

DOCUMENT SCOPE

Exact identity, manufacturer-supported technical data, installation checks, applications, precautions and controlled verification records.

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Technical Specifications

PARAMETER	VERIFIED VALUE
Complete model	A6370D
System	AMS 6300 SIS
Channels	1 speed channel
Local interface	Display
Typical system quantity	3 monitors
Protection function	Overspeed detection
Backplane	A6371 family
Terminal hardware	A6380 or A6381
Supply	24 VDC system

Model-Specific Engineering Note

ENGINEERING BOUNDARY

Record the sensor type, pulse count, speed range, setpoints and relay allocation before replacing A6370D. Test the channel with a traceable frequency source and prove display, alarm, trip and system voting before restoring the protected machine.

Pre-Installation Checks

NO.	REQUIRED CHECK
1	Confirm A6370D and do not substitute A6370D/DP unless Profibus is explicitly required.
2	Place the overspeed protection system in the approved bypass or maintenance state.
3	Record sensor type, pulse count, frequency range and speed units.
4	Capture alert, danger and trip setpoints with their delay and voting assignments.
5	Verify redundant 24 VDC system power before card work.

System Role and Architecture

Emerson A6370D is a one-channel speed monitor with display for the AMS 6300 SIS overspeed protection system. Three monitors can be used with the system backplane and terminal hardware to implement independent speed channels and voted protection logic.

FUNCTION 1

Provides one independent overspeed channel

FUNCTION 2

Includes a local display for channel values

FUNCTION 3

Operates in a three-monitor AMS 6300 SIS architecture

FUNCTION 4

Supports system alarm and trip functions

Common Applications

APPLICATION	ENGINEERING CONTEXT
Steam-turbine overspeed protection	Supervises one independent shaft-speed channel.
Gas-turbine speed trip	Provides a dedicated frequency-to-speed protection path.
Compressor train overspeed logic	Contributes one channel to a voted protection system.
AMS 6300 SIS channel replacement	Restores a displayed A6370D channel while preserving system voting.

CONTROLLED ACCEPTANCE DUTY

Confirm identity, physical interface, companion hardware, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Confirm A6370D and do not substitute A6370D/DP unless Profibus is explicitly required.
2	Place the overspeed protection system in the approved bypass or maintenance state.
3	Record sensor type, pulse count, frequency range and speed units.
4	Capture alert, danger and trip setpoints with their delay and voting assignments.
5	Verify redundant 24 VDC system power before card work.
6	Use ESD controls and protect the rack connector.
7	Inject low, normal and trip-level frequencies after installation.
8	Prove the local display, channel trip and system voting before release.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
What does the D suffix identify on Emerson A6370D?	The ordering table identifies A6370D as the one-channel speed monitor with display.
How is Emerson A6370D different from A6370D/DP?	A6370D/DP adds the Profibus option; the exact A6370D order code does not include that option.
How many speed inputs does Emerson A6370D monitor?	Each A6370D provides one independent speed channel.
Why are three Emerson A6370D monitors commonly installed?	The AMS 6300 SIS architecture uses three independent monitors so the backplane and relay arrangement can implement the required protection voting.

Model-Specific FAQ - Part 2

QUESTION	ANSWER
Which backplane family is used with Emerson A6370D?	The system documentation pairs the monitors with A6371-series backplanes.
Which terminal blocks are documented with Emerson A6370D?	The AMS 6300 SIS manual identifies A6380 or A6381 terminal hardware.
What data must be preserved before changing Emerson A6370D?	Preserve sensor selection, pulses per revolution, speed range, setpoints, delays, relay allocation and system voting.
How should Emerson A6370D be proof-tested?	Apply traceable input frequencies below and above each configured threshold and verify display, alarm, channel trip, backplane output and voted system response.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Bently Nevada 21000-16-05-00-033-04-02	View Bently Nevada 21000-16-05-00-033-04-02
Bently Nevada 21000-16-05-00-050-04-02	View Bently Nevada 21000-16-05-00-050-04-02
Bently Nevada 21000-16-05-00-075-00-02	View Bently Nevada 21000-16-05-00-075-00-02
Bently Nevada 21000-16-05-00-090-04-02	View Bently Nevada 21000-16-05-00-090-04-02
Bently Nevada 21000-16-10-00-030-00-02	View Bently Nevada 21000-16-10-00-030-00-02
Bently Nevada 21000-16-10-00-046-04-02	View Bently Nevada 21000-16-10-00-046-04-02
Bently Nevada 21000-16-10-00-054-04-02	View Bently Nevada 21000-16-10-00-054-04-02
Bently Nevada 21000-16-10-00-077-03-02	View Bently Nevada 21000-16-10-00-077-03-02

MANUFACTURER SOURCE RECORD

A6370 Overspeed Protection Monitor Data Sheet
Emerson data sheet, December 2023; A6370D ordering code

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