HIMA

F6215

Four-Channel Analog Input Module

HIMA F6215 is a four-channel safety-related analog input module supporting 0–1 V, 0–5 V, 0–10 V, Pt100 or 0/4–20 mA signals. The documented execution provides 12-bit conversion with short- and open-circuit monitoring.

System position

Exact identity	System family	Functional role	Release basis
F6215	HIQuad X safety-related I/O	Analog Input Module	Recorded test and diagnostics

Keep the hardware and configuration identities together

F6215 acquires four analog field channels for the matched HIQuad X safety architecture while preserving each channel's signal range, wiring and diagnostic configuration.

IDENTITY / RESOURCE	DOCUMENTED VALUE
Exact model	F6215
Module type	Safety-related analog input
Input channels	4
Voltage ranges	0–1 V / 0–5 V / 0–10 V
Current ranges	0–20 mA / 4–20 mA
Resistance input	Pt100

Technical evidence record: HIMA HIQuad X functional-safety product certificate 61625

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Interfaces and integration

Define the installed role

F6215 acquires four analog field channels for the matched HIQuad X safety architecture while preserving each channel's signal range, wiring and diagnostic configuration.

Exact model	F6215
Module type	Safety-related analog input
Input channels	4

Map the host relationship

The complete F6215 identity is matched to the host position, companion hardware and retained engineering record before any connection is disturbed.

Host	HIQuad X safety-related I/O
Primary role	four-channel acquisition and monitoring of safety-related
Acceptance	Diagnostics and functional response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Electrical	Power, field wiring and protective earth
Communication	Address, network and companion configuration
Configuration	Switches, parameters, project and revision
Release	Controlled test with retained result

Configuration continuity

Retain the recorded HIQuad X safety-related I/O position, connected interfaces and configuration

Acceptance evidence

Release F6215 only after diagnostics and a controlled functional result are recorded.

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Technical resource bands

Only values tied to the complete product identity are listed. Installation-specific settings remain governed by the controlled site record.

PARAMETER	VALUE
Exact model	F6215
Module type	Safety-related analog input
Input channels	4
Voltage ranges	0–1 V / 0–5 V / 0–10 V
Current ranges	0–20 mA / 4–20 mA

PARAMETER	VALUE
Resistance input	Pt100
Resolution	12 bit
Monitoring	Short- and open-circuit supervision
Safety classification	SIL 3 in documented application
Acceptance	Channel value, scaling and diagnostics

Identity decision

Accept only the complete F6215 marking and the recorded hardware execution.

Host decision

Confirm the receiving HIQuad X safety-related I/O position and every companion component.

Interface decision

Compare mechanical fit, power, field wiring, communication and protective earth.

Release decision

Record diagnostics and a controlled test of four-channel acquisition and monitoring of safety-related analog field signals before handover.

Engineering boundary

Use F6215 only after the exact host, installed position, companion parts, protection measures and commissioning record have been matched. Do not borrow ratings from a similar-looking variant.

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Controls and service logic

Installed-system renewal

Restores the documented F6215 position while keeping the approved host and interfaces.

Controlled maintenance

Supports as-found recording, safe isolation and exact connection restoration.

Compatibility review

Compares the full marking, host, connectors, settings and companion hardware.

Commissioning evidence

Records diagnostics and a controlled functional test of four-channel acquisition and monitoring of

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Read F6215 and all companion markings
2. Compare	Host, position, connections, settings and revision
3. Install	Restore wiring, shielding, retention and protection
4. Verify	Review diagnostics and execute controlled function test

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Engineering decisions

What does F6215 identify?

F6215 identifies the four-channel analog input module used for four-channel acquisition and monitoring of safety-related analog field signals.

Which installed system must F6215 match?

Match F6215 to the recorded HIQuad X safety-related I/O host, position and companion hardware.

Which markings must be checked on F6215?

Verify the complete F6215 text and every suffix, revision or assembly marking on the supplied item.

What should be recorded before removing F6215?

Record the slot, connectors, cable labels, switches, parameters, adjacent hardware and diagnostic state.

Can F6215 be replaced by appearance alone?

No. F6215 requires an exact identity and interface match against the installed-system record.

How should F6215 be isolated?

Use the approved maintenance state, remove connected energy and prove the affected circuit safe.

Related Apter Power pages

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