HIMA F6221

8-Channel Intrinsically Safe Analog Input Module

Eight intrinsically safe analog inputs for current and voltage applications. The signal configuration and the approved hazardous-area circuit must be assessed together.

Approved intrinsically safe field circuit → **Eight F6221 analog inputs** → **Scaling, line monitoring and safety logic**

Identity and capability

Input channels	8
Current signal family	0/4-20 mA
Voltage input	0-1 V
Safety listing	SIL 3

Integration and service

Execution	Intrinsically safe (Ex)i
Portfolio monitoring	Short/open-circuit monitoring
Slot detection	Present
Named transmitter-supply companion	F3325; separate six-channel supply role

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Required integration outcomes

Subject	Required outcome
Ex circuit	Installed circuit and associated apparatus match the approved drawing
Input range	Current/voltage selection matches the field device
Feed allocation	Every supplied loop has an explicitly assigned source
Line monitoring	Expected diagnostic and application response are observed
Functional result	All used inputs and safety responses meet the approved test

Use the approved site procedure for trip thresholds, hazardous-area approval and permission to work. This dossier does not assign plant-specific limits.

Engineering distinctions

Eight inputs vs six feeds

F6221 has eight inputs while F3325 is listed with six supply channels. Do not infer one-to-one full-card coverage from the companion relationship.

Range configuration

Keep current or voltage selection associated with each channel. A permitted range family does not authorize changing a transmitter circuit without design review.

Hazardous-area boundary

The module classification does not by itself approve a complete loop. Retain the actual circuit, supply, cable and associated-apparatus documentation.

Line-fault behavior

Validate monitoring using the approved test method and expected application response. Do not invent threshold values or defeat barriers to create a test fault.

Applied engineering case

An eight-input installation served partly by a six-channel F3325 supply needs an explicit feed schedule. Identify which transmitters use that supply and which have another approved source before performing signal and line-monitoring checks.

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Technical reference record

H41q/H51q System Catalogue, HI 800 263 E

PDF pp. 34, 41, 44-46, 53-54; Ex input and supply rows

Technical Product Overview

HIQuad X analog inputs; F6221 monitoring and ATEX listing

Companion reading

The preserved manufacturer excerpt supplies the original technical listing and system context. The separate installation guide covers the ordered work sequence, commissioning evidence and fault checks.

Related Apter Power catalog references

Catalog navigation only. These entries do not establish compatibility, substitution or approval of a changed installation.

HIMA Z7116 | View HIMA Z7116 page

HIMA H4135A | View HIMA H4135A page

HIMA F3349 | View HIMA F3349 page

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Send the exact model, quantity and requested condition for a quotation.

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