HIMA F6220

8-Channel Safety Thermocouple Input Module

Eight safety-related thermocouple inputs with the catalogue also listing a -100 to +100 mV input range and Pt100 capability. Sensor and configuration identity must be checked per channel.

Identity and capability

Input channels	8
Input class	Thermocouple input
Millivolt range in catalogue	-100 to +100 mV
Pt100 listing	Included in the analogue-input overview

Integration and service

Safety listing	SIL 3
Slot detection	Present
Field cable priority	Low-interference routing and shield control
Configuration scope	Actual sensor type and application scaling

Thermocouple / configured temperature input → **Eight-channel F6220 input stage** → **Temperature evaluation and safety action**

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Engineering distinctions

Sensor identity

Thermocouple type, polarity and compensation arrangement belong to the installed channel configuration. The module name alone cannot select them.

Signal versus temperature

A millivolt reading and a displayed temperature are different test outcomes. Acceptance should retain both the applied signal and the configured conversion result.

Pt100 application

The catalogue marks Pt100 capability, but the installed channel wiring and software selection must establish whether it is used on this assembly.

Input noise

Temperature circuits are sensitive to wiring quality and electromagnetic interference. Inspect cable routing and shields before replacing a module for unstable readings.

Required integration outcomes

Subject	Required outcome
Sensor selection	Configured sensor matches the actual circuit
Polarity	Applied stimulus produces the correct direction of response
Conversion	Signal and engineering temperature agree at approved points
Stability	Reading is stable under the intended wiring arrangement
Safety action	The required temperature-related action is witnessed

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

Applied engineering case

Temperature acceptance depends on more than a changing displayed value. Retain the sensor type, channel assignment and configured interpretation together; evaluate the approved test stimulus against that same sensor configuration rather than borrowing a test from another temperature loop.

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Technical reference record

H41q/H51q System Catalogue, HI 800 263 E

PDF pp. 34, 41, 44-46, 53; F6220 row and I/O handling/startup

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 F6205 | View HIMA F6205 page

HIMA Z7126 | View HIMA Z7126 page

HIMA Z7127 | View HIMA Z7127 page

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

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