



GF Welding F374-IMF

Medium-Frequency Welding Interface Card

Product scope

- Interfaces the WELD334m controller with medium-frequency welding feedback circuits.
- Provides dedicated connections for voltage and current sensing paths.
- Supports closed-loop current regulation in compatible resistance-welding equipment.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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GF Welding F374-IMF

Medium-Frequency Welding Interface Card

Product overview

GF Welding F374-IMF is the medium-frequency interface card used in the WELD334m resistance-welding controller architecture. It carries the feedback interfaces required by the current-control function.

F374-IMF is the MFDC interface card identified for WELD334m control systems. Its circuitry links the welding controller with the measurement paths used for medium-frequency current regulation.

Within a resistance-welding installation, the card contributes to current-control operation by receiving the voltage- and current-sensor connections associated with the inverter and welding transformer circuit.

A replacement must retain the WELD334m rack position, connector orientation and sensor wiring. Inspect board revision and terminal markings before transferring P53 voltage-sensor and P54 current-sensor circuits.

Technical specifications

Controller platform	WELD334m
Card designation	F374-IMF
Interface function	Medium-frequency current-control interface
Voltage sensor connector	P53
Current sensor connector	P54
System application	Resistance welding control
Installation format	WELD334m rack card
Signal role	Welding voltage and current feedback interface
Service requirement	Verify board revision and connector coding

F374-IMF function and operating principle

Ordered configuration

The F374-IMF identity denotes the medium-frequency interface board rather than the main controller or I/O expander.

System role

It carries the measurement feedback needed by the welding-control function to regulate the commanded current profile.

Selection and installation

Connector coding, board revision and rack position must be recorded before a field replacement is attempted.

Functional path

- Interfaces the WELD334m controller with medium-frequency welding feedback circuits.
- Provides dedicated connections for voltage and current sensing paths.
- Supports closed-loop current regulation in compatible resistance-welding equipment.

Application scenarios

- Automotive spot-welding cells can use the board in WELD334m cabinets controlling MFDC welding stations.
- Resistance-welding retrofits may retain existing voltage and current sensors when their interfaces remain compatible.
- Service teams use the card identity to isolate feedback-interface faults from main-control or field-I/O problems.

F374-IMF engineering checks

Temperature & Humidity Range

- The card is intended for the controlled environment inside the WELD334m industrial cabinet.
- Cabinet ventilation must prevent heat from the inverter and welding transformer from raising the board ambient excessively.
- Condensation should be prevented before control power is applied after storage or transport.

Certifications & Standards

- System compliance depends on the complete WELD334m cabinet, its protective devices and machine integration.
- Board identity alone does not extend a certification to modified feedback wiring or an unverified inverter.
- Retain the documented terminal functions and protective-earth arrangement during service work.

Firmware & Updates

- The F374-IMF is an interface card and does not carry a user-loadable process program.
- Any controller software compatibility must be checked at the WELD334m system level.
- Board revision should be compared with the installed controller documentation before replacement.

Critical technical note

Power down the WELD334m cabinet before exchanging F374-IMF; swapping P53 and P54 feedback wiring can defeat welding-current regulation.

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