01 / Product dashboard

GENERAL ELECTRIC

531X133PRUALG1

Process Interface Board

Interface role

General Electric 531X133PRUALG1 is a process interface board in the 531X133PRU family, providing signal conditioning and adjustment for drive process and tachometer interfaces.

Feedback
Analog or digital tachometer

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Process input
Follower conditioning

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Interface setup
Scaling and electrical modes

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Drive configuration
Application-specific operation

Exact identity
531X133PRUALG1 - retain the complete suffix.

Engineering scope
PRU design functions; configuration and revision compatibility remain installation-specific.

02 / Technical capability map

Analog tachometer adjustment

SW1 coarse selection; P1 TACH SCALE trim

Process follower adjustment

P4 PF GAIN and P5 PF OFF

Setpoint adjustment

P6 STP SCALE

Speed feedback zero

P7 SFB ZERO

Interface domain	Supported design function	Application boundary
Serial	RS-232C or RS-422 selection	Match receive, transmit and handshake modes
Analog meter	SMET output with P2 adjustment	Not provided with digital tachometer feedback
Digital feedback	Doubling and quadrature selections	Review actual input signal and return paths

03 / Integration and applications

Installed-system context

The drive drawings determine the signal connections and configuration for the offered board. The following functions describe PRU design applications; they do not establish direct replacement compatibility.

Analog speed feedback

Condition an analog tachometer signal using the coarse range selection and tachometer trim. Match AC or DC mode to the installed feedback source.

Process follower input

Adjust the follower gain and offset for the connected process signal. Use the configured current-loop range and drive calibration procedure.

Digital tachometer interface

Review the selected tachometer signal type, doubling and quadrature processing against the installed drive. Check return wiring when changing PRU revisions.

Serial control interface

Use the documented RS-232C or RS-422 selections with matching receive, transmit and handshake settings. Confirm the drive-level communication arrangement.

04 / Engineering decisions

Preserve the full revision

Compare 531X133PRUALG1 with the installed board; a shared PRU family name does not prove a direct replacement.

Record the configuration

Record switch, jumper and potentiometer settings before replacement. Apply the drive drawings and factory configuration for the installation.

Separate analog and digital feedback

Check the actual tachometer type. The analog SMET output is unavailable with digital tachometer feedback.

Review tachometer return paths

For revision changes, verify complementary input and PSPL return connections using the applicable GE procedure.

Match serial electrical modes

Check receive, transmit and handshake selections together. RS-232C and RS-422 configurations must agree with the connected equipment.

Verify follower scaling

Confirm follower range, gain and offset against the connected transducer. Do not copy settings from another application.

05 / Reference, support and portfolio

Lifecycle and supply

A current manufacturer lifecycle phase has not been established for 531X133PRUALG1. Request support and replacement guidance using the full marking and installed drive configuration. Apter Power availability is confirmed separately in the quotation.

Reference basis

GE DC-300 Adjustable Speed Drives, GEK-85766B; GE 531X133PRUALG1 board identification. PRU design functions do not establish replacement approval.

Apter Power summary, not a GE-issued manual. Use the installed drive drawings and applicable manufacturer service procedure.

Related GE control boards

Navigation only; no compatibility or substitution claim.

General Electric 531X304IBDANG1 F31X304IBDAMG1

General Electric 531X307LTBAJG1

General Electric 531X111PSHAPG3

Discuss your installed configuration

Send the full board marking, drive identity and connection details.

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