GE GE □□□ Series Service Manual

IS220PDIOH1B

1. Description

SPECIFICATIONS

2. Specifications

Specification	Value
Functional	**Part Number IS220PDIOH1B**
Product	**Series Mark VI**
Original	**Manufacturer General Electric Speedtronic**
Features	**2 Ethernet Ports**
Nominal	**Voltage Rating 28.0 V**
Dimensions	**W4.5in x H3.5in x D2.25in**
Weight	**Less than 2 lbs.**
Contact	**Voltage Outputs 32.0 Vdc**
Chassis	**Style Vented**
Shipping	**Weight 2.5 lb**
About	**the IS220PDIOH1B**
Application:	**Used in the management and control systems of wind, steam, and gas turbine automated drive assemblies.**
Improvement:	**A marked improvement over earlier Mark Series iterations which were limited to steam and gas turbine applications.**
Technology:	**One of the final-developed GE Mark product series to introduce the patented Speedtronic control system technology across a range of offerings (Speedtronic introduced with Mark I in late 1960s).**
Type:	**Discrete I/O Pack.**
Hazardous	**Locations: Accessory combinations are approved for use in hazardous locations.**
Hardware	**Tips and Specifications**
Function:	**Extends PDIO pack functionality (PDIO packs typically work with tw**

3. Product Information

SPECIFICATIONS

Part No.: IS220PDIOH1B

Manufacturer: General Electric

Product Type: Discrete I/O pack

Series: Mark VIe

IS220PDIOH1B is an I/O pack that is part of the GE Speedtronic MKVIe gas turbine control.Discrete I/O pack IS220PDIOH1B with terminal boards(accessories) combinations are approved for use in hazardous locations.

The Ambient temperature rating is from -30 to +65 degrees celsius (-22 to +149 degrees Fahrenheit).

The Mark VIe control system is a versatile platform that can be used in a wide range of applications. It supports simplex, dual, and triple-redundant systems with high-speed, networked input/output (I/O).

For programming, configuration, trending, and analysis of diagnostics, the ControlST software suite is utilized with Mark VIe controls and related systems.

Manufacturer : GE

Product No. : IS220PDIOH1B

Product Type : Discrete I/O Pack

IS220PDIOH1B Technical Specifications

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Hardware Tips and Specifications

Function: Extends PDIO pack functionality (PDIO packs typically work with two accessory terminal boards).

Terminal Board Type: Labeled as Intrinsically Safe Apparatus Relay Contact terminal boards.

Internal Components: Contains:

Two Ethernet ports.

A local processor.

A data acquisition board.

Obsolescence: Electronics technology for Mark VIe I/O packs introduced in 2004 is obsolete.

Front Panel LED Indicators:

For both Ethernet ports.

For the unit's power.

An "attn" LED.

Additional LEDs related to relay connections.

PCB Protection: Entire surface of the base printed circuit board has a conformal-style PCB surface coating for protection against daily wear and tear.

IS220PDIOH1B Compatible Products & Wiring

Minimum Voltage Rating: 27.4 VDC.

Nominal Voltage Rating: 28.0 VDC.

Field Wiring: Unit and associated terminal boards have specific field wiring connection instructions (including wire size and screw torque) that must be followed.

Field Terminals: Twenty-four field terminals when using TDBS or TDBT boards.

Terminal Labeling: All positive terminals are labeled as contact-wetting inputs.

Terminal Differences: Terminals differ between negative and positive (refer to datasheet for details).

Associated Terminal Boards (Examples):

ISx0yTDBSH2A

ISx0yTDBSH8A

ISx0yTDBTH2A

ISx0yTDBTH8A