Extended Product Life Cycle Support Notice: Service with Updated Technology Mark VIe I/O*

This Extended Product Life Cycle Support Notice is intended to help you plan the maintenance and evolution of your Mark* VIe control system. This notice, as part of a broader Product Life Cycle Support Policy, protects your investment with extensive replacement parts availability, typically extending up to 10 years following the end of production date, including planned upgrade paths to current control technologies.

At inception, Mark VIe controls embraced the principle of extended life cycle through an Ethernet backbone design with discrete modular building blocks, including controllers, network components, I/O modules, and extensive software tools. This flexible, modular, upgradable architecture enables our customers to maintain a state-of-the-art control system by upgrading or replacing components as needed. This design allows for incremental technology upgrades, obsolescence protection, parts life cycle planning and comprehensive system upgrades, without the need to replace the entire control system.

The electronics technology for the Mark VIe I/O packs introduced in 2004 is obsolete, and updated electronics technology was introduced in 2010. The updated Mark VIe I/O packs are backward-compatible, and can be mixed and matched with the older technology including TMR systems.

In February 2015, GE announced the first group of IO modules to transition to the newer technology. The list of modules is attached in Appendix A and you can refer to GE's life cycle notice GEZ-S2026 for more information.

Today, GE is announcing the additional IO packs below have transitioned to the upgraded technology:

Obsolete Catalog Number	Available Catalog Number	Description	Minimum ControlST Version¥
IS220PVIBH1A	IS420PVIBH1B	Non-Safety: Vibration Inputs non-safety	V06.01
IS220YVIBS1A	IS420YVIBS1B‡	Safety: Vibration Inputs SIL certified	V06.02
IS220YAICS1A	IS420YAICS1B‡	Safety: Analog In/Out: 10 analog input and 2 analog outputs SIL certified	V06.01
IS221YAICS1A	IS421YAICS1B‡	Safety: Analog In/Out: 10 analog input and 2 analog outputs	V06.01
IS220YDIAS1A	IS420YDIAS1B‡	Safety: Contact In: 24 discrete inputs	V06.01
IS220YDOAS1A	IS420YDOAS1B‡	Safety: Contact Out: 12 relays with status feedback	V06.01
IS221YDOAS1A	IS421YDOAS1B‡	Safety: Contact Out: 12 relays with status feedback	V06.01
‡ On a TMR card, all 3 safety Packs must be upgraded to the same version at the same time. Mixing S1A and S1B packs are not supported on the same Terminal Board; however, you can have S1A and S1B mixed within a Mark VIe System on different terminal boards. Please refer to GEH-6721 Volume II.			
¥ To ensure ease of service with this updated I/O technology, some preparation work may be required during your next outage. The level of preparation depends on the revision level of your site's hardware and software. To install these replacement IO modules, you will need to ensure that you are running with the stated minimum ControlST version or later.			

There remain some IO packs that have not transitioned and are orderable. Those packs are listed in Appendix B for your reference.

In addition to the IO pack transition, a few IO terminal boards have been upgraded to address sub-component obsolescence. Any special considerations for replacement in the field is noted in the *Upgrade Considerations* column.

	Obsolete Catalog Number	Available Catalog Number	Upgrade Considerations
Power Distribution Cards	IS200JPDDG1A	IS400JPDDG1A	These cards are Form-Fit-Function replaceable. No special considerations are required.
	IS200JPDDG3A	IS400JPDDG3A	
	IS200JPDDG4A	IS400JPDDG4A	
	IS200JPDEG1A	IS400JPDEG1A	
	IS200JPDGH1A	IS400JPDGH1A	
	IS200JPDHG1A	IS400JPDHG1A	
	IS200JPDMG1A	IS400JPDMG1A	
	IS200JPDSG1A	IS400JPDSG1A	
Terminal Board used with the Core Analog PCAA IO Pack	IS200TCATH1A	IS400TCATH1A	
Terminal Boards used with the PDIO IO Pack	IS200TDBTH2A	IS400TDBTH2A	
	IS200TDBTH4A	IS400TDBTH4A	
	IS200TDBTH6A	IS400TDBTH6A	
	IS200TDBTH8A	IS400TDBTH8A	
Terminal Board used with the YDOA Safety Relay Output IO Pack	IS200TRLYS1B	IS400TRLYS1B	
Power Distribution Daughter Card used with Relay Output Cards	IS200WROGH1A	IS400WROGH1A	
Daughter Card for the Vibration Inputs used with the PVIB and YVIB Vibration Pack This card is not needed for the newer IS400TVBAH2B or IS400TVBAS2B as the function is integrated directly on the TB.	IS200WNPSH1A	IS400WNPSH1A	
	IS200WNPSS1A	IS400WNPSS1A	
Terminal Boards used with the PVIB and YVIB Vibration IO Packs	IS200TVBAH2A	IS400TVBAH2B	Mounting has changed. To replace an IS200TVBAH2A, please order the IS410TVBAH2B for correct mounting.
	IS200TVBAS2A	IS400TVBAS2B	Mounting has changed. To replace an IS200TVBAS2A, please order the IS410TVBAS2B for correct mounting.

GE is committed to cost-effective, life-cycle support, and offers a wide range of hardware and software product, services, and service agreements to keep your equipment running reliably. For further assistance, contact the nearest GE Sales or Service Office, or an authorized GE Sales Representative.

Rob Turner
Mark VIe Controls Platform Product Line Manager
GE Gas Power

Appendix A: GEZ-S2026 Life cycle notice for initial set of IO cards (February 2015)

Obsolete Catalog Number	Available Catalog Number	Description
IS220PDIAH1A	IS220PDIAH1B	Contact In: 24 discrete inputs
IS220PDIIH1A	IS220PDIIH1B	Isolated Contact In: 16 discrete inputs
IS220PDIOH1A	IS220PDIOH1B	Discrete In/Out: 24 Contact In and 12 type C mechanical relays
IS220PDOAH1A	IS220PDOAH1B	Contact Out: 12 relays with status feedback
IS220PAICH1A	IS220PAICH1B	Analog In/Out: 10 analog input and 2 analog outputs
IS220PAICH2A	IS220PAICH2B	Analog In/Out with 200 mA Out
IS220PAOCH1A	IS220PAOCH1B	Analog Out: 8, 0-20 mA outputs
IS220PPDAH1A	IS220PPDAH1B	Power Distribution System Feedback
IS220PTCCH1A	IS220PTCCH1B	Thermocouples: 12 combustion optimized inputs, 1 cold junction
IS220PTCCH2A	IS220PTCCH2B	Thermocouples: 12 general industry inputs, 1 cold junction
IS220PRTDH1A	IS220PRTDH1B	RTD In: 8 RTDs
IS220PSCAH1A	IS220PSCAH1B	Serial Communications: 6 channels
IS220PCNOH1A	IS220PCNOH1B	CANopen® Communications
IS220PPRFH1A	IS220PPRFH1B	PROFIBUS® Communications
IS220PHRAH1A	IS220PHRAH1B	Hart® Analog In/Out: 10 AI (V/I inputs) and 2 AO (0-20 mA outputs) with HART communications
IS230PCAAH1A	IS230PCAAH1B	Core Analog In/Out for heavy duty gas turbines
IS220PCLAH1A	IS220PCLAH1B	Core Analog In/Out for aero-derivative turbines
IS220PSVOH1A	IS220PSVOH1B	Servo Control: 2 outputs, 8 LVDT and 2 pulse rate inputs
IS220PTURH1A	IS220PTURH1B	Turbine In/Out: Primary Turbine protection
IS220PPRAS1A-H1A	IS220PPRAS1B	Turbine In/Out: Turbine Backup Protection
IS220PPROH1A	IS220PPROS1B	Turbine In/Out: Turbine Backup Protection

To ensure ease of service with this updated I/O technology, some preparation work may be required during your next outage. The level of preparation depends on the revision level of your site's hardware and software. The preparation details are included in the service procedure: *GEI-100847, BPPC I/O Upgrade V05.01.03 Instruction Guide*. The following chart summarizes the required actions:

ControlST Version	Required Action During Next Planned Outage
ControlST* V04.04 or later	Install BPPC I/O Upgrade V05.01.03 across the system
Prior to ControlST V04.04	**1.** Upgrade to ControlST V04.07.08C or ControlST V05.02.04C, or the highest available version at the next scheduled outage. **2.** Install BPPC I/O Upgrade V05.01.03 across the system.
Prior to ControlST V03.06	Contact GE for support

Appendix B: IO Packs that have not transitioned

These are still orderable in their original form. Order as needed.

Available Catalog Number
IS220PEFVH1A
IS220PGENH1A
IS220PIOAH1A
IS215PMVDH1A
IS215PMVPH1A
IS220PSCHH1A
IS220PSVPH1A
IS220YHRAS1A
IS220YPROS1A
IS220YTCCS1A
IS220YTURS1A

Please send comments or suggestions to controls.doc@ge.com.

For further assistance or technical information, contact the nearest GE Sales or Service Office, or an authorized GE Sales Representative.