



## ***Extended Product Life Cycle Support Notice Service with Updated Technology Mark\* Vle I/O Packs***

This Extended Product Life Cycle Support Notice is intended to help you plan the maintenance and evolution of your Mark Vle 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 Vle 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, upgradeable 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The electronics technology for the Mark Vle I/O packs introduced in 2004 is obsolete, and updated electronics technology was introduced in 2010. The updated Mark Vle I/O packs are backward-compatible, and can be mixed and matched with the older technology including in TMR systems.

Effective February 1, 2015, GEIP will offer only the updated technology I/O packs as indicated on the following chart.

<b>Obsolete Catalog Number</b>	<b>Available Catalog Number</b>	<b>Description</b>
IS220PDAH1A	IS220PDAH1B	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

Obsolete Catalog Number	Available Catalog Number	Description
IS220PCAAH1A	IS220PCAAH1B	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-HIA	IS220PPRAS1B	Turbine In/Out: Turbine Backup Protection
IS220PPROH1A	IS220PPROS1B	Turbine In/Out: Turbine Backup Protection
Not applicable	IS215AEPCH2F	AEPC - 30Nm non-CANBus Wind Pitch Control (Center/Axis)
IS215AEPCH1C	IS215AEPCH1F	AEPC - 30Nm Wind Pitch Control (Center/Axis)
IS215AEPCH1A	IS215AEPCH1D	AEPC -20Nm Non-ESS Wind Pitch Center Control
IS215AEPCH1B	IS215AEPCH1E	AEPC - 20Nm ESS Wind Pitch Center Control
IS215AEPAH1A	IS215AEPAH1C	AEPA - 20Nm Wind Pitch Axis Control
IS215WEPAH1A	IS215WEPAH1B	WEPA - 30Nm CANBus Wind Pitch Axis Control
IS215WEPAH2A	IS215WEPAH2B	WEPA - 30Nm non-CANBus Wind Pitch Axis Control
IS215WETAH1B	IS215WETAH1CA	WETA - Wind Topbox A Module
IS215WEMAH1A	IS215WEMAH1BA	WEMA -Wind Energy Main Cabinet "A" (DTA)

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 Plant Outage
ControlST* V04.04 or later	Install BPPC I/O Upgrade V05.01.03 across the system
Prior to ControlST V04.04	<ol style="list-style-type: none"> <li>1. Upgrade to ControlST V04.07.08C or ControlST V05.02.04C, or the highest available version at the next scheduled outage.</li> <li>2. Install BPPC I/O Upgrade V05.01.03 across the system</li> </ol>
Prior to ControlST V03.06	Contact GE for support

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.

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