GE Service Manual

IS200WETCH1AAA

1. Description

IS200WETCH1AAA Technical Specifications

2. Specifications

Specification	Value
Manufacturer	**GE Energy**
Series	**Mark VIe Wind**
Part	**Number IS200WETCH1AAA**
Functional	**Acronym WETC**
Functional	**Description WETC Top Box Module C Assembly**
PCB	**Coating Conformal Coating**
Functional	**Revision 1 A**
About	**the IS200WETCH1AAA**
The	**IS200WETCH1AAA is a board created by GE Energy for the Mark VIe system of wind turbine controls. The Mark VIe is a complete turbine control management system that has hardware and integrated software, along with a PC-based HMI that allows access to turbine data from a single location. While prior General Electric Mark Series including the Mark V may only pertain to gas and steam turbine applications specifically, this is not the case with the aptly-named Mark VIe Series. The Mark VIe Series that this IS200WETCH1AAA device belongs to has to be considered one of the final General Electric Mark product series to make use of the brand's esteemed Speedtronic control system technology, a technology first introduced with the advent of the previous Mark I Series all**

3. Product Information

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Hardware Tips and Specifications

The IS200WETCH1AAA is built with four fuses on its surface. Two of these fuses are located toward the center of the board and two are located in one corner, with all of the fuses featuring the standard FU industry-known nomenclature label. This IS200WETCH1A model has a single transformer component. There are two terminal strips opposite each other on short ends of the circuit card, each strip making use of six positions each. The IS200WETCH1A is populated by additional crucial hardware components, including but not limited to:

forty-four voltage regulators

two inductor coils

integrated circuits

hundreds of resistors

various diodes

hundreds of capacitors

Any resistor, capacitor, or diode present in the makeup of the IS200WETCH1A were included for voltage protection and storage purposes. The WETC board has several relays and over forty plugs and jacks, primarily female. All of the plugs evident on the base board of this Top Box Module C Assembly are present on the very edge of the printed circuit board, for efficient connectivity. This device's primary voltage suppression and resistance strategy involves its normal Mark VIe Series assembly's inclusion of a specific series of Mark VIe Series-standardized voltage-limiting hardware components including but not limited to various forms of Mark VIe Series capacitors, resistors, diodes, and integrated circuits. This IS200WETCH1A device's singular A-rated revision is considered a functional revision given the fact that its sole focus is to improve the basic performance specifications and overall functionality of the IS200WETCH1A product, without making any meaningful concessions for aesthetic or durability purposes.

The IS200WETCH1AAA has an exposed copper band located around the edge of the board. Several terminals have been factory-drilled at locations along this band. This copper band acts as a primary insulation barrier between the IS200WETCH1A circuit board, which may possess dangerous surface voltages, and its screw standofffs used in normal installation. This Top Box Module C Assembly Board has additional terminal holes located within the body of the board, and is marked with several other factory-printed labels and nomenclatures, including the manufacturer’s logo, with the id number, as well as several codes.

Please refer to factory user guides or manuals for information regarding installation, which should have been issued along with your original purchase. Before making a purchase decision for this IS200WETCH1AAA model, please note that its status as a revised PCB may impact its overall dimensions or performance specifications greatly. All of the previously-mentioned hardware component parts unique to this WETC PCB should receive a solid level of protection from their conformal-style chemical PCB coating, which is designed to cover every surface of every available board assembly component.