GE Genius I-O Series Service Manual

IC660HHM501

1. Description

GE Fanuc’s IC660HHM501 Hand-held Monitor (HHM) is an interface operating device used to set up, monitor, and configure a Genius I/O and communication system. The HHM can be used as a portable monitoring device if desired by the user. Included in the IC660HHM501's features is a four-lined LCD display with 16 characters each, language selection display (English, Spanish, French, and Italian), a 20-key sealed membrane keypad, and a keyswitch limits access to operations of certain functions of the d

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660HHM501**
Size	**10.85 x 4.30 x 2.25 inches**
Product	**Description Hand-held monitor**
Supported	**Functions Hardware configuration, fault clearing, I/O forcing and bus selection.**
Operating	**Temperature 0-60 Degree Celsius (32-140 Degree Fahrenheit)**
Storage	**Temperature -40 to 70 Degree Celsius (-40 to 158 Degree Celsius)**
Product	**Description Hand-held monitor**
Required	**AC Power 115 to 230V AC, 47 to 63 Hz**
Fully	**Charged Operation 6 hours**
Display	**Characters 4 lines of 16 characters each**
Keyboard	**20 sealed keys**
Display	**Languages English, German, French/Italian**
Data	**Rate 153.6 Kbaud standard**
Operating	**Temperature 0 to 60 degrees Celsius**
Weight	**(with case) 1.8 pounds Description**
The	**IC660HHM501 is a GE Fanuc manufactured hardware. This electronic device is a Hand Held Monitor (HHM) that is part of the Genius product series. It enable users to monitor I/O Data for any device on the bus, Diagnostics, Bus Scan time, Descriptions of all devices on the bus, gl**

3. Product Information

GE Fanuc’s IC660HHM501 Hand-held Monitor (HHM) is an interface operating device used to set up, monitor, and configure a Genius I/O and communication system. The HHM can be used as a portable monitoring device if desired by the user. Included in the IC660HHM501's features is a four-lined LCD display with 16 characters each, language selection display (English, Spanish, French, and Italian), a 20-key sealed membrane keypad, and a keyswitch limits access to operations of certain functions of the device. The ability to communicate with the I/O blocks and force discrete and analog I/O is the primary feature of the HHM, even in the absence of a PLC or computer connected to the bus.

Data for the Genius bus and all its devices are displayed on the screen of the IC660HHM501 to help the user receive and review I/O data for any device on the bus, memory data from CPUs, global data addresses, bus scan time, diagnostics, and descriptions of all devices on the bus. Operating from its battery pack or AC power, the IC660HHM501 handheld monitor has a required 115/230 VAC at 15% or 47-63 Hz of AC power for the battery charger. Even if using AC power, a battery pack must be installed. Full charge takes approximately six hours. For power conservation, the HHM has an automatic shutoff time of 10 minutes. When continuous operation is required, this feature can be disabled.

The monitor independently weighs 1.6 lbs. and its size is 8.00” x 3.75” x 1.25”. If stored in its protective case, the IC660HHM501 weighs 1.8 lbs. and measures 10.85” x 4.30” x 2.25”. The HHM can be permanently installed using a panel mounting kit and should be installed with access to 115 VAC or 230 VAC power. The acceptable operating temperature range is zero to 60C (32-140F), with a storage temperature range of -40 to +70C (-40 to 158F). Non-condensing humidity should not drop below 5 percent and should not rise above 95 percent.

The IC660HHM501 monitor is a hand-held monitor and a product of GE Fanuc Automation. It belongs to the Genius I/O product family and it is a standalone hand-held module. This hand-held monitor module comes with a removable leather case, a cable that is used to connect the monitor to the I/O block, a rechargeable battery, and a battery charger or adapter which has an 8-foot cord. The GE Fanuc IC660HHM501 hand-held monitor provides an efficient operator interface that enables the operators to monitor and control a Genius I/O PLC system’s operation as well as its communication. It features an LCD control screen with 4 selectable display languages, a battery pack, a 20-key sealed membrane keypad and a keyswitch that is used to access the restricted operator functionalities. This module’s keypad comprises operation keys, function keys, and decimal keys which are used to provide reliable operation.

The GE Fanuc Genius I/O IC660HHM501 hand-held monitor features a battery pack which is used to provide a maximum of 6 hours of operation without any other power during a power failure. This unit has passed the industrial drop test, where it is dropped from 4 feet onto a concrete floor. Other notable optional accessories that can be purchased separately for the IC660HHM501hand-held monitor include an external connector for the HHM module that is used to offer a permanent connection on a Genius Bus. The GE Fanuc IC660HHM501 hand-held module is meant to be mounted on the back of the panel in the Genius I/O PLC by using the mounting brackets which are provided with the hand-held monitor. The GE Fanuc IC660HHM501 is a Hand-Held Monitor (HHM) that allows user to interface with a variety of GE Fanuc devices. This HHM features LCD display that supports display of 4-lines of information with Sixteen (16) characters each line. It has a selectable language such as English German, French or Italian. It has a 20-key sealed membrane keypad, operated using the battery pack, 115VAC or Technical specifications for IC660HHM501

Brand GE Fanuc

Series Genius I-O

Part Number IC660HHM501

Size 10.85 x 4.30 x 2.25 inches

Product Description Hand-held monitor

Supported Functions Hardware configuration, fault clearing, I/O forcing and bus selection.

Operating Temperature 0-60 Degree Celsius (32-140 Degree Fahrenheit)

Storage Temperature -40 to 70 Degree Celsius (-40 to 158 Degree Celsius)

Product Description Hand-held monitor

Required AC Power 115 to 230V AC, 47 to 63 Hz

Fully Charged Operation 6 hours

Display Characters 4 lines of 16 characters each

Keyboard 20 sealed keys

Display Languages English, German, French/Italian

Data Rate 153.6 Kbaud standard

Operating Temperature 0 to 60 degrees Celsius

Weight (with case) 1.8 pounds Description

The IC660HHM501 is a GE Fanuc manufactured hardware. This electronic device is a Hand Held Monitor (HHM) that is part of the Genius product series. It enable users to monitor I/O Data for any device on the bus, Diagnostics, Bus Scan time, Descriptions of all devices on the bus, global data addresses, Memory Data from CPUs on the bus.

Additionally, the IC660HHM501 is also capable of being used for hardware configuration, fault clearing, I/O forcing and bus selection. It also permits set-up of security to restrict and managed the access to different information and capabilities of this Hand-Held Monitor (HHM). The HHM is a convenient device for carrying out commissioning, maintenance and troubleshooting activities. It can directly access I/O blocks, simulate and force discrete and analog data within the CPU register.

The IC660HHM501 features an LCD display that is capable of displaying Four (4) lines of information where up to Sixteen (16) characters may be displayed in each line. This provides the user readout and information. As means of interaction, the IC660HHM501 HHM is provided with a Twenty (20) key sealed membrane keypad that is composed of function keys, decimal keys and operation keys. These provided keypad allow users to input the appropriate commands. This HHM is also equipped with a keyswitch to prevent unwanted access to some functions, depending on the selected restrictions. To operate this HHM, external supply voltage is required to be supplied through it power input ports. Appropriate voltage supply is 115VAC or 230VAC. Additionally, the provided battery pack may also be used to power this HHM.

The keypad of the module consists of functions keys, decimal keys, and operation keys for providing reliable operations. The IC660HHM501 hand-held monitor comes with a battery pack that offers up to 6 hours of operation without connected power. It has passed the drop test, in which it is dropped from a height of 4 feet onto a concrete floor. Some of the optional accessories which can be purchased separately for the hand-held monitor are an external HHM connector which can provide a permanent HHM connection on the genius Bus, a 230 Volts AC rated power adapter, extra HHM keys, and a battery charger. The module can be mounted behind the panel by using the metal mounting brackets that are provided. If it is mounted this way, the users must install an extra D-shell connector that is also provided with the module. The IC660HHM501 hand-held monitor is a reliable operator interface device that is made to display I/O data for any connected devices. This data includes the bus data, diagnostics data, the memory data of the CPUs, the bus scan time, and the global data addresses.