GE Field Control Series Service Manual

IC670ALG621

1. Description

The GE Fanuc IC670ALG621 Analog RTD Input Field Control Module has been designed and manufactured to receive up to 4 independent RTD signals and process them in the field using its state-of-the-art electronics in order to transmit a digital signal to the corresponding Bus Interface Unit in a GE Fanuc Genius network of controllers. Many different types of RTD with ratings ranging Technical specifications for IC670ALG621

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Field Control**
Part	**Number IC670ALG621**
Type	**of Component RTD input module**
Operating	**Temperature 0Â°C (32Â°F) to 55Â°C (131Â°F)**
Operating	**Humidity 5% to 95%, non-condensing**
Input	**Resistance Range 0 to 3276.7 ohms**
Number	**of RTD Inputs 4**
Configuration	**Method From the BIU using handheld configuration tool**
Operating	**Frequency 50 to 60 Hz**
PT-100	**Compatible Yes Description**
GE	**Fanuc manufactures the IC670ALG621 Field Control Module, which is specifically designed for receiving 4 independent analog inputs from 4 different RTD sensors as a part of the Genius Bus control platform. Measuring temperature is a fundamental part of multiple industrial processes, and the most common way of doing it is by using Resistance Temperature Detectors (RTD). The GE Fanuc IC670ALG621 Analog RTD Input Field Control Module is a solid-state device, it is made to be an intelligent module, and it is able to receive RTD signals rated oat different levels and to interpret those readings according**

3. Product Information

The GE Fanuc IC670ALG621 Analog RTD Input Field Control Module has been designed and manufactured to receive up to 4 independent RTD signals and process them in the field using its state-of-the-art electronics in order to transmit a digital signal to the corresponding Bus Interface Unit in a GE Fanuc Genius network of controllers. Many different types of RTD with ratings ranging Technical specifications for IC670ALG621

Brand GE Fanuc

Series Field Control

Part Number IC670ALG621

Type of Component RTD input module

Operating Temperature 0Â°C (32Â°F) to 55Â°C (131Â°F)

Operating Humidity 5% to 95%, non-condensing

Input Resistance Range 0 to 3276.7 ohms

Number of RTD Inputs 4

Configuration Method From the BIU using handheld configuration tool

Operating Frequency 50 to 60 Hz

PT-100 Compatible Yes Description

GE Fanuc manufactures the IC670ALG621 Field Control Module, which is specifically designed for receiving 4 independent analog inputs from 4 different RTD sensors as a part of the Genius Bus control platform. Measuring temperature is a fundamental part of multiple industrial processes, and the most common way of doing it is by using Resistance Temperature Detectors (RTD). The GE Fanuc IC670ALG621 Analog RTD Input Field Control Module is a solid-state device, it is made to be an intelligent module, and it is able to receive RTD signals rated oat different levels and to interpret those readings according to pre-configured reference parameters. All the customizations that are needed can be made from the GE Fanuc BIU (Bus Interface Unit) by using a handheld configuration device.

Some of the RTD types that can be connected to the GE Fanuc IC670ALG621 Analog RTD Field Control Input Module are the 10-Ohm Platinum (PT), the 25-Ohm Platinum (IPTS-68), and the 25.5-Ohm Platinum (alpha =.00392 at 0 degress Celsius Lab Std) RTD types. Both 3-wire and 4-wire configurations are compatible with this RTD module. The input resistance range for the GE Fanuc IC670ALG621 Analog RTD Input Field Control Module is from 0 to 3276.7 Ohms. Parameters such as the number of active RTD inputs, the Byte length of the output data, and the line frequency being used in the circuit (50 or 60 Hertz) are also customizable through the BIU by using a handheld configuration device that is sold separately. The IP rating of this module is IP 20, so it is important to follow the manufacturer's recommendations for installation and environmental protection against dust and direct contact with water.