Submittal Data Information

501-030

Plant ID: 001-4109

GCI Graphical Control Interface

Self-Contained Interoperable Controller Model UCP-1

SUPERSEDES: New

EFFECTIVE: August 10, 2012

Job: _____ Engineer: _____

Contractor: _____ Rep: _____

Date: _____ Tag/Item #: _____

Controller Selection:

Base Model (Select One) * :

GCI-0XX _____ GCI-6XX _____

Accessory Module (Select One):

01 _____ iWorx® + Lonworks interfaces

02 _____ iWorx® + BACNet IP interfaces

03 _____ iWorx® + BACNet MSTP interfaces

04 _____ iWorx® + MODBUS RTU interfaces

05 _____ iWorx® + MODBUS TCP interfaces

* Replace XX with Accessory Module number for full part number.

GCI

The GCI is a microprocessor-based graphical control interface for controlling iWorx® and other controllers over a variety of building automation interfaces.

The Taco GCI consists of a JENEsys® JENE-PC1000 or JENE-PC6000 pre-commissioned with the software, files and licenses needed for easy integration with a network of iWorx® devices.

The GCI is available in two base models:

- GCI-0XX Family: For installations of less than 30 controllers.
- GCI-6XX Family: For installations of 30 or more controllers, or installations with heavy data-logging needs.

Overview

The GCI is a compact, embedded controller/server platform that combines integrated control, supervision, data logging, alarming, scheduling and network management functions with Internet connectivity and web serving capabilities in a small, compact platform. The GCI makes it possible to control and manage iWorx® and other external devices over the Internet and present real time information to users in web-based graphical views.

The JENE-PC1000 or 6000 is a member of the JENEsys® suite of Java-based controller/server products, software applications and tools, all designed to integrate a variety of devices and protocols into unified, distributed systems. JENEsys® products are powered by the revolutionary Niagara^{AX} Framework®, the industry's first software technology designed to integrate diverse systems and devices into a seamless system. Niagara^{AX} supports a wide range of protocols including LonWorks™, BACnet™, Modbus, oBIX and Internet standards. The Niagara^{AX} Framework also includes integrated network management tools to support the design, configuration, installation and maintenance of interoperable networks.

The GCI controller provides control over building automation systems based on the following automation protocols:

Product	Description
GCI-X01	Graphical Control Interface with iWorx® and LonWorks interfaces
GCI-X02	Graphical Control Interface with iWorx® and BACNet IP interfaces
GCI-X03	Graphical Control Interface with iWorx® and BACNet MSTP interfaces
GCI-X04	Graphical Control Interface with iWorx® and MODBUS RTU interfaces
GCI-X05	Graphical Control Interface with iWorx® and MODBUS TCP interfaces
GIPS-001	120 VAC 60 Hz power supply for GCI series controls

Features

- Compact, embedded controller/server platform
- Integrates control, supervision, data logging, alarming, scheduling, and network management functions
- Internet connectivity and web serving capabilities
- GCI-0XX Family: Embedded PowerPC platform @ 250 MHz
- GCI-6XX Family: Embedded PowerPC platform @ 524 MHz
- Comes standard with two RJ-45 Ethernet ports, one RS-232 port, and one RS-485 port
- Supports BACnet, LON, and Modbus protocols
- Fully customizable with an array of software drivers and custom modules
- All program data is backed up in nonvolatile EEPROM; battery backup
- Onboard Ethernet communication provides rapid data transmission
- Runs stand-alone control, energy management, and multi-protocol Integration

Specifications

Platform

- GCI-0XX Family
  a. PowerPC 405EP 250 MHz processor
  b. 128MB SDRAM & 64 MB Serial Flash
- GCI-6XX Family
  a. PowerPC 440EP 524 MHz processor
  b. 256MB SDRAM & 128 MB Serial Flash
- Battery Backup - 5 minutes typical - shutdown begins within 10 seconds
- Real-time clock - 3 month backup max via battery

Communications

- 2 Ethernet Ports - 10/100 Mbps (RJ-45 Connectors)
- 1 RS 232 Port (9 pin D-shell connector)
- 1 RS 484 non isolated port (3 Screw Connector on base board)

Operating System

- QNX RTOS
- IBM J9 JVM Java Virtual Machine
- Niagara^{AX}

Power Supply

- GIPS-001 - 120 VAC, 60 Hz.

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Chassis

- Construction: Plastic, Din rail or screw-mount chassis, plastic cover
- Cooling: Internal air convection
- Dimensions: 6.313" (16.04 cm) W x 4.820" (12.24 cm) H (including connectors) x 2.438" (6.19 cm) D

Environment

- Operating temperature range: 0° to 50°C (32°F to 122°F)
- "Storage Temperature range: 0° to 60°C (32°F to 140°F)
- "Relative humidity range: 5% to 95%, non-condensing

Agency Listings

- UL 916, C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 "Signal Equipment", CE
- FCC part 15 Class A, C-Tick (Australia)

CONTROLS MADE EASY®

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