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Software Manual

Woodward
Graphical Application Programmer (GAP)
Software

Getting Started

Manual 80018 (Revision A)

WARNING

The engine, turbine, or other type of prime mover should be equipped with an overspeed shutdown device to protect against runaway or damage to the prime mover with possible personal injury, loss of life, or property damage.

The overspeed shutdown device must be totally independent of the prime mover control system. An overtemperature or overpressure shutdown device may also be needed for safety, as appropriate.



Read this entire manual and all other publications pertaining to the work to be performed before installing, operating, or servicing this equipment. Practice all plant and safety instructions and precautions. Failure to follow instructions can cause personal injury and/or property damage.



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Any unauthorized modifications to or use of this equipment outside its specified mechanical, electrical, or other operating limits may cause personal injury and/or property damage, including damage to the equipment. Any such unauthorized modifications: (i) constitute "misuse" and/or "negligence" within the meaning of the product warranty thereby excluding warranty coverage for any resulting damage, and (ii) invalidate product certifications or listings.

NOTICE

To prevent damage to a control system that uses an alternator or battery-charging device, make sure the charging device is turned off before disconnecting the battery from the system.

NOTICE

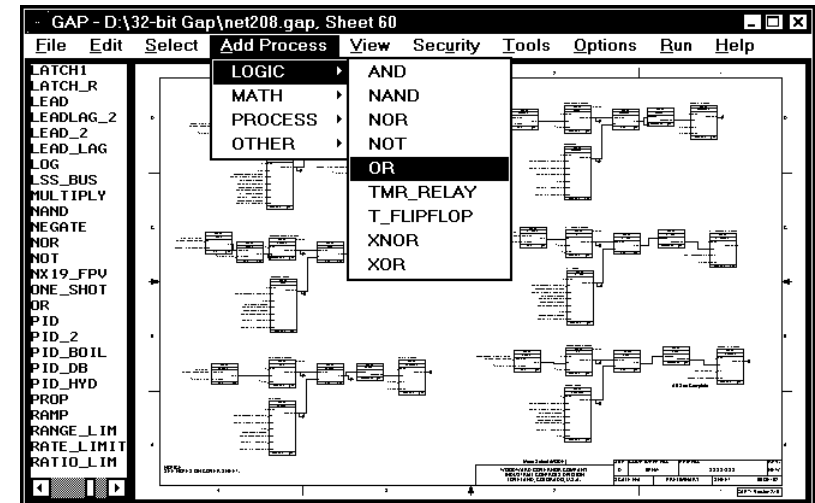
To prevent damage to electronic components caused by improper handling, read and observe the precautions in Woodward manual 82715, *Guide for Handling and Protection of Electronic Controls, Printed Circuit Boards, and Modules*.

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Main Features

GAP (Graphical Application Programmer) software is the graphical programming tool used with Woodward control systems. GAP utilizes Function Blocks and Sequential Function Charts to create control and sequencing logic for turbines, engines, auxiliary equipment, and any other functions performed in the control. Programs may be viewed, created, or modified using GAP.



The available Function Blocks are dependent upon the Coder Template. You must have the correct template version for your application.

After creating or modifying the GAP program, the Coder program is used to compile applications prior to download to the control.

"Read Only GAP" is available to view an existing GAP application program. No modifications may be made with Read Only GAP.

System Requirements

The minimum system requirements are a PC with a Pentium™ 133 MHz processor, 32 MB of RAM memory, and Windows 95, Windows 98, or Windows NT. Use of a system that does not meet these requirements will in most cases degrade the performance.

Installation Procedure

1. Insert Gap software installation disk #1 or CD-ROM into the disk drive and run Setup.exe from the installation diskette.
2. Follow the instructions presented during the installation.

Running the Gap Software

This booklet provides instructions on how to install the software. On-line help is available in the Help menu of the Gap program, once it is installed. You can find the default installation location by clicking the Windows START button, then selecting PROGRAMS, then finding "Gap".