

# Full-featured FREE Software for Productivity3000 PAC



## TOP 10 Software Highlights

- Auto set-up and discovery of hardware
- Tag name database programming
- Task management
- Advanced “fill-in-the-blank” instructions
- Seamless Database connectivity
- Graphical HTML-based Help File
- Run-time editing
- Project file and user documentation stored in CPU
- USB data logging on the CPU
- Tag database export to C-more HMI

all in an intuitive Windows-based programming environment

## All project files in CPU means it's not all Greek to you

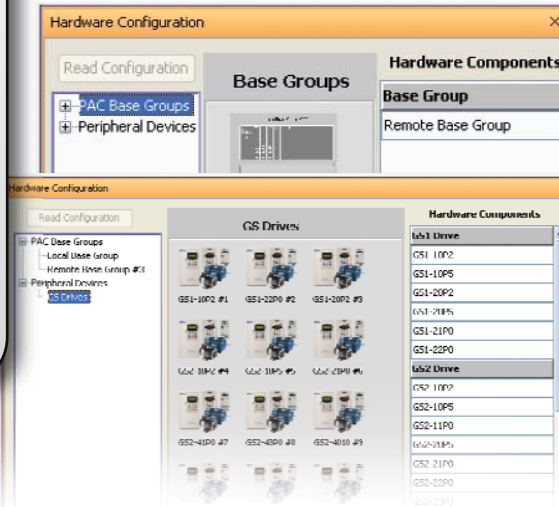
With the ample memory in the CPU, there's plenty of room for the program, tag name database and all the program documentation. This means the helpful descriptions and comments are available to anybody with a PC and Productivity Suite software. This can be pretty important when it's 1 a.m., the machine is down and you're the one that has to look at the program and figure out what's wrong.

## Task management boosts program speed and efficiency

The Task Manager helps organize program code and execute it for maximum speed and efficiency. Create functional tasks, name them and schedule their execution frequency - every scan, every second, or when called. A “First Scan Only” task lets you initialize values and conditions. Store specialized tasks that help debug and troubleshoot in the Disabled Tasks section.

## Full-featured Productivity Suite software FREE (\$495 value)

The Productivity3000 is a new generation controller, and we want everyone to see just how feature-packed it is and how productive it can make you. That's why we're offering the software for FREE (downloadable online) for a limited time - check out the tools, instruction set and programming/debug environment that will let you configure and program a system in less time than you can imagine. See pages 7-8 through 7-19 for more details on the powerful features of this software.



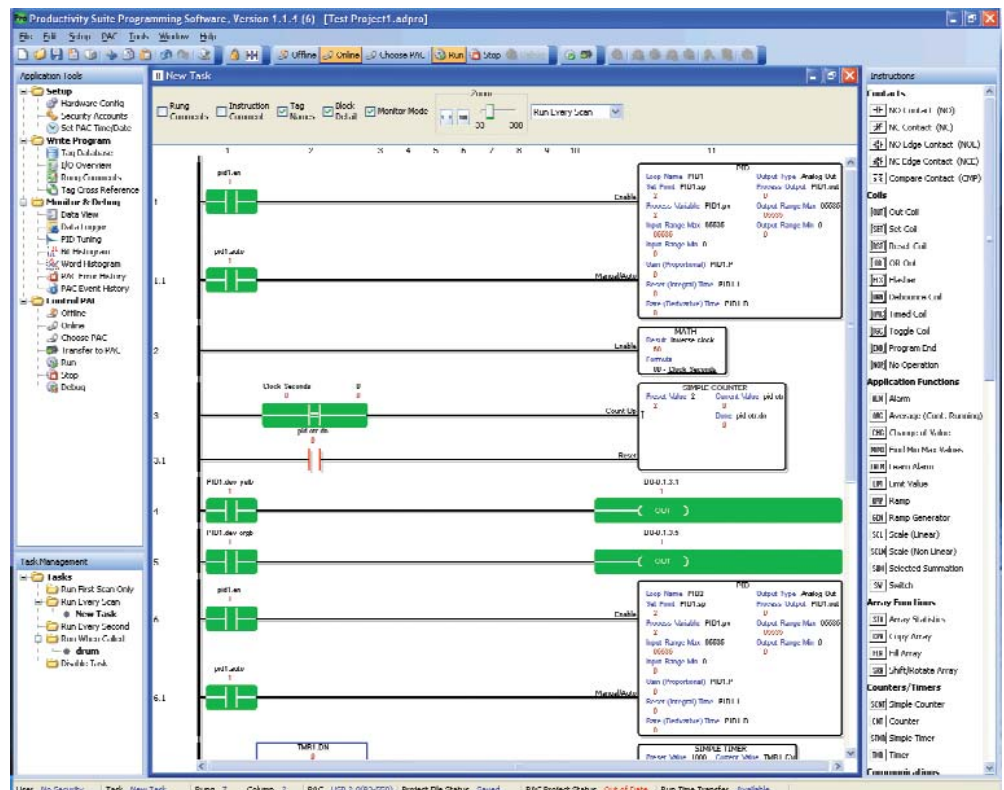
## Hardware auto-discovery

One click is all it takes to detect and auto-configure the hardware connected to the system, including local and remote bases and I/O. GS drives on the internal Ethernet network are also discovered during any configuration update. This can save you literally hours and hours of setup time.

Or, configure the system offline by dragging and dropping bases and modules.

## Advanced instructions are timesavers

There are so many time-saving instructions, and they all have one thing in common - their “fill-in-the-blank” approach makes it easy to configure even the more complex tasks that previously required a whole bunch of program code. Scaling, calculator-style math, statistics, send email, it goes on and on ...



# Saves you time from start to finish

| Name         | Type            | System ID    | RSD | Cdc | # Chars | Retn | Int Val | Wiring | Start Addr | Last Ad |
|--------------|-----------------|--------------|-----|-----|---------|------|---------|--------|------------|---------|
| DO-1.1.4.32  | Discrete Output | DO-1.1.4.32  |     |     |         |      |         |        |            |         |
| DO-1.1.4.4   | Discrete Output | DO-1.1.4.4   |     |     |         |      |         |        |            |         |
| DO-1.1.4.5   | Discrete Output | DO-1.1.4.5   |     |     |         |      |         |        |            |         |
| DO-1.1.4.6   | Discrete Output | DO-1.1.4.6   |     |     |         |      |         |        |            |         |
| DO-1.1.4.7   | Discrete Output | DO-1.1.4.7   |     |     |         |      |         |        |            |         |
| DO-1.1.4.8   | Discrete Output | DO-1.1.4.8   |     |     |         |      |         |        |            |         |
| DO-1.1.4.9   | Discrete Output | DO-1.1.4.9   |     |     |         |      |         |        |            |         |
| PIB01 SP     | Flow, 32 Bit    | P32-000001   |     |     |         |      | 320.0   |        |            |         |
| PIB02 SP     | Flow, 32 Bit    | P32-000002   |     |     |         |      | 0.0     |        |            |         |
| PIB03 SP     | Flow, 32 Bit    | P32-000003   |     |     |         |      | 0.0     |        |            |         |
| PIB04 SP     | Flow, 32 Bit    | P32-000004   |     |     |         |      | 10.0    |        |            |         |
| PIB05 SP     | Flow, 32 Bit    | P32-000005   |     |     |         |      | 0.0     |        |            |         |
| PIB06 SP     | Flow, 32 Bit    | P32-000006   |     |     |         |      | 0.0     |        |            |         |
| MPS-1.1.1.25 | Module Status   | MPS-1.1.1... |     |     |         |      |         |        |            |         |
| MPS-1.1.1.26 | Module Status   | MPS-1.1.1... |     |     |         |      |         |        |            |         |
| MPS-1.1.1.27 | Module Status   | MPS-1.1.1... |     |     |         |      |         |        |            |         |
| MPS-1.1.1.28 | Module Status   | MPS-1.1.1... |     |     |         |      |         |        |            |         |
| MPS-1.1.1.29 | Module Status   | MPS-1.1.1... |     |     |         |      |         |        |            |         |
| MPS-1.1.1.30 | Module Status   | MPS-1.1.1... |     |     |         |      |         |        |            |         |
| MPS-1.1.1.31 | Module Status   | MPS-1.1.1... |     |     |         |      |         |        |            |         |
| MPS-1.1.1.32 | Module Status   | MPS-1.1.1... |     |     |         |      |         |        |            |         |
| MPS-1.1.1.33 | Module Status   | MPS-1.1.1... |     |     |         |      |         |        |            |         |
| MPS-1.1.1.34 | Module Status   | MPS-1.1.1... |     |     |         |      |         |        |            |         |
| MPS-1.1.1.35 | Module Status   | MPS-1.1.1... |     |     |         |      |         |        |            |         |

## Tag name database is friendly and flexible

Data memory ranges in the Productivity3000 are not fixed by data type, which is more efficient because you have the freedom to define the data types you need instead of having wasted memory for ones you do not.

Also, a tag name database means no more confusing and ambiguous memory and I/O references - add descriptive names as you program or enter all the tags before you even write one line of code. The data is stored in true database format so you can search, filter and sort; import a .csv file or use the one created every time you save the project for importing into other databases.

## Easy data logging on CPU

Easily log data to a removable mass storage device (USB) on an event or time basis. Track up to 64 data values and system errors through the Data Logger tool. And the CPU will hold the data internally until an external device is replaced.



## Help File really does help

Detailed hardware and software information is at your fingertips with the exhaustive HTML-based Help file. From "Getting Started" to detailed program instruction descriptions, it's all there when you need it. Find the help you need on a specific topic quickly, and read only what's relevant to you at the time.

Home > Instructions > Application Functions > Find Min/Max Values (MIMX) Instruction

### Find Min/Max Values (MIMX) Instruction

Mnemonic (Keyboard Shortcut) - MIMX

Purpose: Store the Lowest and Highest Values of a Numerical Tag

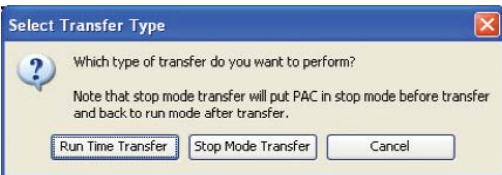
| Parameter | Parameter Type | Requirements | Event When Updated |
|-----------|----------------|--------------|--------------------|
| Enable    | Ladder Input   | Must Have    | L1Cv               |
| Reset     | Ladder Input   | Must Have    | Level              |
| Input     | Numerical Tag  | Must Have    | Input              |
| Min Value | Numerical Tag  | Must Have    | Store              |
| Max Value | Numerical Tag  | Must Have    | Store              |

Note: If an Unsigned or BCD data type is selected for the Min or Max Value

Instruction Configuration: When Find Min/Max Values instruction is selected the window shown is

## Run-time editing

Commissioning or troubleshooting a system can be less time-consuming if you can make program edits on the fly. Download edits to the CPU without pausing I/O updates or stopping/restarting the program. From melting rubber to making paper, you can keep your process running, avoiding downtime and product waste.

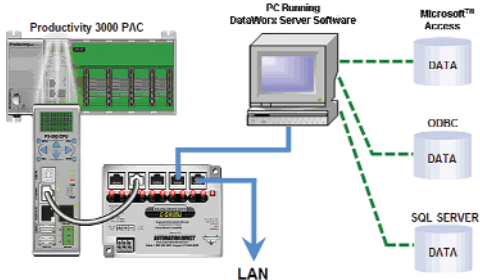


## Seamless database connectivity

With the integrated DataWorx instruction, connectivity to Microsoft Access, SQL or ODBC databases has never been easier (DataWorx P3K server for PC sold separately). The controller can retrieve, add, delete and update data records in the remote database.



| #   | System    | Tag Name  | Reference | Initial Value | MUUBUS | Number of Wiring Labels |
|-----|-----------|-----------|-----------|---------------|--------|-------------------------|
| 1   | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 2   | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 3   | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 4   | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 5   | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 6   | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 7   | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 8   | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 9   | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 10  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 11  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 12  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 13  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 14  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 15  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 16  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 17  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 18  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 19  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 20  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 21  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 22  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 23  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 24  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 25  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 26  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 27  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 28  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 29  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 30  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 31  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 32  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 33  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 34  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 35  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 36  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 37  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 38  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 39  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 40  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 41  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 42  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 43  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 44  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 45  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 46  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 47  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 48  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 49  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 50  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 51  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 52  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 53  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 54  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 55  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 56  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 57  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 58  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 59  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 60  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 61  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 62  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 63  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 64  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 65  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 66  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 67  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 68  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 69  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 70  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 71  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 72  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 73  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 74  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 75  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 76  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 77  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 78  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 79  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 80  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 81  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 82  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 83  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 84  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 85  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 86  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 87  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 88  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 89  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 90  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 91  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 92  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 93  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 94  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 95  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 96  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 97  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 98  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 99  | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |
| 100 | AIS32-1.1 | AIS32-1.1 | FALSE     | 0             |        |                         |



## Import tags into C-more database

C-more HMI software has a direct import feature for the Productivity3000 tag database. No duplicating work - bring in all the tag names from the controller program right into C-more's database with just a few keystrokes.