In China
In Germany
In Japan
In Australia
In U.S.A.
In Brazil

In addition to mobile-phone and digital camera photo data, and BMP data like company logo, JPEG data can be displayed on the POD as they are.

More than 1000 different 3D parts are prepared. The UG30 with 32,768 full-color allows more realistic image display.

The on-site operation manuals or recovery manuals have been used in paper because they contain clear and sharp photos. Now, these paper manuals can be maintained and used on the POD as electronic manuals.

The analog touch panel is adopted as standard. Switches may be arranged freely in the dot unit, not in the cell unit like conventional matrix type. Furthermore, enlargement and reduction are also arranged in the dot unit, allowing high degree of expression freedom.

Not only Japanese and English, but Chinese (simplified and traditional) and Korean are also supported in a local main screen. It is possible now to verify system information and screen data information of POD main body and run tests in these parts of the world.

Windows fonts can be used for display. The expression can be improved as your desired font types and sizes can be chosen for each part and message. Multiple languages can also be displayed on a single screen.

Chinese and Korean languages are supported for a local main screen.

Effective for local language expression when exporting the equipment or on-site operation with local staff.

Possible to enlarge and reduce in dot unit.

Analog touch panel allows handwriting on the POD (memo pad function), checking the touch switch status (ON/OFF), and checking the pressed coordinate with the internal memory (coordinate output function).

Up to 8 languages can be displayed simultaneously or by switching.

Effective for local language expression when exporting the equipment or on-site operation with local staff.
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3D parts

More than 1000 different 3D parts are prepared. The UG30 with 32,768 full-color allows more realistic image display.

JPEG display

In addition to mobile-phone and digital camera photo data, and BMP data like company logo, JPEG data can be displayed on the POD as they are.

Animation

Animation can be automatically completed simply by setting desired movements of pre-registered photo or picture (BMP file). This allows more realistic animation image display. Try it for yourself.

The 32,768 full-color display gives clear and bright images equivalent to photos.

For example, the on-site operation manuals or recovery manuals have been used in paper because they contain clear and sharp photos. Now, these paper manuals can be maintained and used on the POD as electronic manuals.

Multi-language function

Up to 8 languages can be displayed simultaneously or by switching.

Effective for local language expression when exporting the equipment or on-site operation with local staff.

Analytical touch panel

The analog touch panel is adopted as standard. Switches may be arranged freely in the dot unit, not in the cell unit like conventional matrix type. Furthermore, enlargement and reduction are also arranged in the dot unit, allowing high degree of expression freedom.

Analog touch panel allows handwriting on the POD (memo pad function), checking the touch switch status (ON/OFF), and checking the pressed coordinate with the internal memory (coordinate output function).

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Windows font function

Windows fonts can be used for display. The expression can be improved as your desired font types and sizes can be chosen for each part and message. Multiple languages can also be displayed on a single screen.

Effective for local language expression when exporting the equipment or on-site operation with local staff.

CF card is required for multi-language display.
**Product Features**

**Integrative**

**Temperature control network**

When connected with the inverter, temperature controller, or servo system with communication function, made by different manufacturers, data can be monitored or parameters set on the POD.

The devices, supporting ModbusRTU protocol, can be connected with the devices of different manufacturers and different models. UG-300 can communicate with inverter, temperature controller, and servo system via RS-232C/485 without any programs. Up to 31 units can be connected when RS-485 is used. Both serial connection and connection via communication unit are possible between PLC and POD.

**PLC 2-Way**

Two PLCs of different manufacturers or different series can be connected to a POD. The POD acts as gateway between different PLCs.

%MW1. 3000
%MW1. 3001
%MW1. 3002
%MW1. 3003
%MW1. 3004
D100
D101
D102
D103
D104

When a new facility has to be extended to an existing facility, the old facility can transfer data with the new facility’s PLC via POD, without any program change of the old PLC.

**Modbus communications function**

Allows data communications between PLCs of different makers via POD using the temperature control network (ModbusFree).

**Modbus master communications function**

Modbus communications can be used from a personal computer to access the internal memory of POD and memories of PLCs and inverters.

**Web server function**

HTML files stored in the CF card can be displayed using a browser on a personal computer or set from the browser, making it possible to monitor or change settings of PLC and inverter data through the POD from a remote site. JPEG files stored in the CF card can also be monitored.

**E-mail distribution function**

As E-mail can be distributed via the mail server upon system failure, prompt action can be taken or breakdown of an automatically operating system be recognized quickly. Maximum 8 addresses may be registered. (A mail server is required on the LAN.)

**Multi-Link 2**

This network enables high-speed communications with PLCs, using the standard serial port of the POD. Maximum 4 units of POD can be connected to one unit of PLC. While the communication rate between POD and PLC depends on the PLC, communication rate between PODs is 115kbps.

**Ethernet**

The model with Ethernet 100BASE-TX/10BASE-T equipped as standard is prepared. This standard model permits construction of the Ethernet network system. The Ethernet system can also be configured with models without Ethernet 100BASE-TX/10BASE-T once it is equipped with option.

PODs and PLCs connected on the Ethernet enable N-to-N connection without any program.

The POD has the communication gateway function. Thus, bi-directional communications from the personal computer to PLC and vice versa are possible via the POD. If communications are done via Ethernet, screen data of the POD can be transferred quickly. This is effective for transferring screen data containing many photos.

Data communications are also possible between PODs or between PLCs connected to the POD. Failure can be monitored from a remote site.

As E-mail can be distributed via the mail server upon system failure, prompt action can be taken or breakdown of an automatically operating system be recognized quickly. Maximum 8 addresses may be registered. (A mail server is required on the LAN.)

**UG-Link**

Failure can be monitored from a remote site.

Only communication program for between POD/UG and PLC will do.

Max. 31 PODs can be connected.

UG-Link (RS-485) (For RS-232C, 1:1 connection is possible.)

PLCs of different makers that are supported by POD can be connected.
**Product Features**

**Integrative**

**Network**

**Temperature control network**

When connected with the inverter, temperature controller, or servo system with communication function, made by different manufacturers, data can be monitored or parameters set on the POD. The devices, supporting ModbusRTU protocol, can be connected with the devices of different manufacturers and different models. UG30 can communicate with inverter, temperature controller, and servo system via RS-232C/485 without any programs. Up to 31 units can be connected when RS-485 is used. Both serial connection and connection via communication unit are possible between PLC and POD.

The model with Ethernet 100BASE-TX/10BASE-T equipped as standard is prepared. This standard model permits construction of the Ethernet network system. The Ethernet system can also be configured with models without Ethernet 100BASE-TX/10BASE-T once it is equipped with option.

**Modbus slave communications function**

Allows data communications between PLCs of different makers via POD using the temperature control network (ModbusFree).

**Modbus master**

%MW1. 3000
%MW1. 3001
%MW1. 3002
%MW1. 3003
%MW1. 3004

When a new facility has to be extended to an existing facility, the old facility can transfer data with the new facility's PLC via POD, without any program change of the old PLC.

**Web server function**

HTML files stored in the CF card can be displayed using a browser on a personal computer or set from the browser, making it possible to monitor or change settings of PLC and inverter data through the POD from a remote site. JPEG files stored in the CF card can also be monitored.

**E-mail distribution function**

As E-mail can be distributed via the mail server upon system failure, prompt action can be taken or breakdown of an automatically operating system be recognized quickly. Maximum 8 addresses may be registered. (A mail server is required on the LAN.)

**Ethernet**

PODs and PLCs connected on the Ethernet enable N-to-N connection without any program.

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This network enables high-speed communications with PLCs, using the standard serial port of the POD. Maximum 4 units of POD can be connected to one unit of PLC. While the communication rate between POD and PLC depends on the PLC, communication rate between PODs is 115kbps.

**POD**

PODs of different makers that are supported by POD can be connected.

**RS-485**

RS-485 bus is used for the connection to PLC.
**Product Features**

**Information Management**

**Alarm/Message display function**
An alarm or message can be displayed in response to bit.

**Alarm log function**
Contents of the trouble and time can be stored and managed to display as the log data. Data items may be sorted in order of occurrence times and priorities. Using the data, failure causes and equipment availability can be analyzed and displayed.

Upon trouble occurrence, this is effective for giving detailed instructions to operators and indication of trouble location by photos, to enable prompt action.

**Data logging function**
The error information and numeric data sampled from the system are logged to store in the CF card.

As recipe data is handled as CSV file, it can be edited on the personal computer easily. Recipe data can also be edited on the POD screen.

**Recipe function**
The setting data (recipe data) for the equipment created on the personal computer can be written to the PLC via the CF card. Multiple sets of recipe data can be stored in the CF card and selected on the POD.

**Memory card editor**
(UG00P-MS)
The memory card editor is the software used to write the data stored in the CF card, built-in SRAM, or SRAM cassette in the personal computer, or convert them into a CSV file. When the POD is connected with a personal computer via Ethernet (except Simple POD and Handy POD), on-site data can be monitored from a remote office.

**Applicable models**

<table>
<thead>
<tr>
<th>Model</th>
<th>Series</th>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG530</td>
<td>530 Series</td>
<td>Handy POD</td>
</tr>
<tr>
<td>UG630</td>
<td>630 Series</td>
<td>Handy POD</td>
</tr>
<tr>
<td>UG430</td>
<td>430 Series</td>
<td>Handy POD</td>
</tr>
<tr>
<td>UG330</td>
<td>330 Series</td>
<td>Handy POD</td>
</tr>
<tr>
<td>UG230</td>
<td>230 Series</td>
<td>Handy POD</td>
</tr>
<tr>
<td>UG221</td>
<td>221 Series</td>
<td>Handy POD</td>
</tr>
</tbody>
</table>

**Supported models**

- Handy POD
- Simple POD

**Characteristics**

- Effective in sampling mode
- Power source

- Since data is handled as a CSV file, it is easy to edit on a personal computer.
- Sampling data from the PLC is automatically stored in the 'buffering file' in the memory card.

**Managing as CSV file**

- Writing data into the CF card
- Transforming data stored in card can be sent to PLC or PLC data can be written into the card.

- As recipe data is handled as CSV file, it can be edited on the personal computer easily.
- Recipe data can also be edited on the POD screen.
Alarm/Message display function
An alarm or message can be displayed in response to bit.

Alarm log function
Contents of the trouble and time can be stored and managed to display as the log data. Data items may be sorted in order of occurrence times and priorities. Using the data, failure causes and equipment availabilities can be analyzed and displayed.

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**Product Features**

**Connective**

**External Connection Unit**

- **RGB input function**: UG30A-VIS is required. (UG00A-VIS for UG630)
- **Video input function**: UG30A-VIS is required. (UG00A-VIS for UG630)
- **Audio output function**: UG30A-ROS is required. (UG00A-ROS for UG630)
- **Audio output function**: UG30A-RIS, ROS, VIS or SUD is required.

Images of the connected digital video camera or CCD camera can be displayed on the UG30 as they are.

**Handy CPU port**

The POD screen can be displayed on a monitor available in the market.

**POD**

The POD screen can be displayed on a monitor available in the market.

Can be used as the electronic Andon in the plant production line.

**4-channel simultaneous display function**

When 4 cameras are connected, their four images are simultaneously displayed.

**Super impose function**

The transparent operating screen can be displayed simultaneously on the video image.

**Snap function**

Not only a single snap, the strobe snap function enables display of 16-cell continuous static image capture.

The snap images are handled as JPEG data.

**Conforms to 1D and 2D bar code**

The UG30 can read out data by connecting 2D bar code scanner, in addition to 1D bar code scanning. (Only UG30 conforms to 2D bar code)

**Conforms to USB interface as standard**

USB master and slave interfaces are included as standard equipment. These increase on-site utility by allowing connection to a USB-equipped printers (such as EPSON PM Series) or commercially available CF card recorders. It also lets you transfer large-capacity screen data at a high speed.

**Compatible with printers**

In addition to conventional MS-DOS printers, the UG30 series can be connected with Windows-based EPSON PM Series color ink-jet printers and compact printer CBM920/930 supplied by CBM.

**Resources**

**Maintenance Tool**

**Screen management by CF card**

Use of CF card facilitates screen data management.

- **_data of multiple screens can be stored in a single CF card. Screen data may be replaced, if necessary.**
- **Screen data can be sent from CF card to POD.**
- **Screen data under operation can be stored in CF card.**

**Ladder transfer function**

By connecting the PLC programming tool to the POD, the PLC program can be read/written or monitored via the POD.

As the POD can be substituted for the conventional dual port interface or PLC's general-purpose communication module, this is effective for a PLC that has only one CPU programming port. (Makers of applicable models: Fuji, Mitsubishi, Omron, Yokogawa, Matsushita and SAMSUNG)

**Ladder monitor function**

Equipping with the extension memory cassette (UG30P-LM) for ladder monitor, the screen of the UG30 unit can be used to monitor ladder diagrams and I/O areas of the PLC. During monitoring a ladder diagram, you can call out the desired ladder by specifying a step number, and also make a search by specifying an address. When you click an error message, you can search and display the coil corresponding to the bit. [Corresponding PLC models]
- (Standard loader)
- Mitsubishi : MELSEC-Q (except for Q00J/00/01)
Product Features

Connective

External Connection Unit

RGB input function

A single POD can display either its normal screen or a personal computer screen, with its switching operation. This contributes to space and cost savings of the system. The mouse function of the personal computer can also be realized on the POD screen using the analog touch panel function.*

RGB output function

The POD screen can be displayed on a monitor available in the market.

Video input function

Images of the connected digital video camera or CCD camera can be displayed on the UG30 as they are.

4-channel simultaneous display function

When 4 cameras are connected, their four images are simultaneously displayed.

Super Impose function

The transparent operating screen can be displayed simultaneously on the video image.

Snap function

Not only a single snap, the strobe snap function enables display of 16-cell continuous static image capture. The snap images are handled as JPEG data.

Audio output function

Sounds recorded in the WAV file format can be output from the speaker with amplifier.

Compatible with printers

In addition to conventional MS-DOS printers, the UG30 series can be connected with Windows-based EPSON PM Series color ink-jet printers and compact printer CBM292/293 supplied by CBM.

Product Features

Connective

Video input function

Images of the connected digital video camera or CCD camera can be displayed on the UG30 as they are.

4-channel simultaneous display function

When 4 cameras are connected, their four images are simultaneously displayed.

Super Impose function

The transparent operating screen can be displayed simultaneously on the video image.

Snap function

Not only a single snap, the strobe snap function enables display of 16-cell continuous static image capture. The snap images are handled as JPEG data.

Audio output function

Sounds recorded in the WAV file format can be output from the speaker with amplifier.

Compatible with printers

In addition to conventional MS-DOS printers, the UG30 series can be connected with Windows-based EPSON PM Series color ink-jet printers and compact printer CBM292/293 supplied by CBM.

Product Features

Conform to 1D and 2D bar code

The UG30 can read out data by connecting 2D bar code scanners, in addition to 1D bar code scanning. (Only UG30 conforms to 2D bar code)

Conforms to USB interface as standard

USB master and slave interfaces are included as standard equipment. These increase on-site utility by allowing connection to a USB-equipped printers (such as EPSON PM Series) or commercially available CF card recorders. It also lets you transfer large-capacity screen data at a high speed.

Compatible with printers

In addition to conventional MS-DOS printers, the UG30 series can be connected with Windows-based EPSON PM Series color ink-jet printers and compact printer CBM292/293 supplied by CBM.

Product Features

Resources

Maintenance Tool

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Ladder monitor function

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<thead>
<tr>
<th>Corresponding PLC models</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fujitsu: MELSEC-Q (except for QJ3U/00/01)</td>
</tr>
<tr>
<td>Mitsubishi: MELSEC-Q</td>
</tr>
<tr>
<td>Fujitsu: FLEX-PC (Standard loader)</td>
</tr>
<tr>
<td>Fuji: MICREX-SX (Standard loader)</td>
</tr>
</tbody>
</table>

USB port

POD Lineup

POD models

Product Feature

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Drawing is performed in this window.

Significant reduction of man-hours in screen drawing with easy-to-use editing environment.

Create screens
Get the whole picture at a glance with the new View layout.

1. Drawing window
   Drawing is performed in this window.

2. Call and edit windows and set up the system
   Project View window
   Display setting and system setting are integrated in the Project View window. Various settings can be changed and verified promptly only by the Project View window.

3. Select and arrange parts in the drawing window
   Catalog View window
   Parts layout is enabled by calling the list of parts and dragging and dropping selected parts on the drawing window.

4. Edit setting by the Item View window
   Item View window
   All the arranged parts are set in the Item View window.

5. List and display items arranged in the drawing window
   Item list
   Items can be listed by function. Also, only selected items can be displayed.

Significant reduction of man-hours in screen drawing with compound parts

Compared with the previous versions, the new editor is able to significantly reduce man-hours in drawing by adopting compound parts. Simple, prompt drawing even when there are Complicated screens with can be drawn simply and quickly.

Comparison of editing alarm function by the older editor and POD EDITOR Ver. 4

<table>
<thead>
<tr>
<th>Previous editor</th>
<th>POD EDITOR Ver. 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose alarm mode</td>
<td>Layout compound alarm parts</td>
</tr>
<tr>
<td>Choose alarm screen area</td>
<td>Completed</td>
</tr>
<tr>
<td>Layout function switch</td>
<td>N times</td>
</tr>
</tbody>
</table>

The man-hours in drawing depends on the type of parts.
Catalog View window

Parts layout is enabled by calling the list of parts and dragging and dropping selected parts on the drawing window.

Select parts from the Catalog View window

Drag & Drop!

All kinds of parts are displayed on the Catalog View window.

Drag the parts or the parts list from the Catalog View window and drop them on the drawing window.

Drag and drop from parts list

Drag & Drop!

All parts are thumbnailed on the parts list.

Select the parts from the parts list and layout them on the drawing window by drag and drop.

Layout at once by using compound parts

Drag & Drop!

Compound parts are adopted to combine multiple parts to one. Compound parts can be used as a template for alarm screens, notepads and trend charts.

For example, an alarm screen is arranged at once by selecting compound parts from the parts list, and dragging and dropping them. Man-hours in drawing can be significantly reduced by using this function.

Item View window

All the arranged parts can be set up on the Item View window.

Easy set-up on the Item View window

Switch with tabs

All the selected parts can be set up with only one Item View window.

Arranged parts are set up on the Item View window.

Project View window

Display setting and system setting are integrated in the Project View window. Various settings can be changed and verified only by the Project View window.

Change and verification on the Project View window

Configuration Project View window

Switch with tabs

All the screen configuration of the whole file can be verified on the Screen Project View window. The Configuration Project View window allows you to verify all the system setting.

Screen Project View window

Double-Click

All the setting can be also changed on the Project View window.
**Catalog View window**

Parts layout is enabled by calling the list of parts and dragging and dropping selected parts on the drawing window.

**Select parts from the Catalog View window**

All kinds of parts are displayed on the Catalog View window.

Drag the parts or the parts list from the Catalog View window and drop them on the drawing window.

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Select the parts from the parts list and layout them on the drawing window by drag and drop.

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**Applicable models**

<table>
<thead>
<tr>
<th>Series</th>
<th>UG630</th>
<th>UG530</th>
<th>UG430</th>
<th>UG330</th>
<th>UG230</th>
<th>UG221</th>
<th>Handy POD</th>
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</thead>
<tbody>
<tr>
<td>UG530</td>
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<tr>
<td>UG221</td>
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</tbody>
</table>
Macro function is made easier.

**Support for text entry**
Now macros can be directly entered with a keyboard. Macros are created and modified easily just like any text entry.

**Comment list function**
Comments can be added to describe the content of macros. The comments can be directly accessed using this function.

**Automatic macro entry error check**
When an erroneous macro is entered, this function immediately lets you know what is incorrect and in what way it is incorrect.

**Support function for macro editing**
This support function is added so that you can see the function of the macro at a glance as you do with Excel functions. Now you can create macros easily without consulting a manual.

**Macro library**
Exporting to a text file and importing from a text file is possible with this version. Various macros can be maintained in libraries.

The image can be zoomed out/in to just fit in the window. The image of the drawing window can be zoomed out/in from 10 to 400% with an increment of 1%.

Parts can be arranged using the coordinate system on the Item View window. This function is useful when a fine tuning is required.

Selected items or areas can be turned into switches or lamps.

A multi-language bar is provided on the tool bar. This function is useful when screens are created in different languages to switch among these screens.

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Japanese
English
Chinese
Korean
Easy macro function

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Macro library
Exporting to a text file and importing from a text file is possible with this version. Various macros can be maintained in libraries.

Export macro to a library.

Import the macro from a library and use it.

The content can be managed as a text file.

Zooming out and zooming in of the drawing window

The image of the drawing window can be zoomed out/in from 10 to 400% with an increment of 1%.

Arranging parts with the coordinate system
Parts can be arranged using the coordinate system on the Item View window. This function is useful when a fine tuning is required.

The position of a part can be specified by one dot.

Modifying parts
Selected items or areas can be turned into switches or lamps.

The item turns into a switch lamp at once with a right-click.

Switching languages smoothly with a multi-language function on the tool bar
A multi-language bar is provided on the tool bar. This function is useful when screens are created in different languages to switch among these screens.
When the new screen is created, the minimum initial set-up is performed in the Wizard mode. It makes sure that set-up is performed to get ready to create a new screen.

The new function is added to automatically resize the screen. POD screen data of a different resolution can be reused with this function.

Emulator function is incorporated in the POD Editor. Only one PC is required for simulation.

A screen is created very quickly just by following instructions of the editor. With the Wizard, creating complex parts and detailed setting is easily done as you wish. The setting of already arranged parts can be modified easily with the Wizard too.

You can add original parts to the parts list and store them in a library. This is an easy process by dragging them from a drawing window and dropping them on a new screen of the parts list.

Effective reduction of man-hours in screen drawing

Each new screen does not have to be created for a different screen size (resolution). *Manual fine tuning may be required.

POD main body was not necessary for simulation. You can create a new screen by tracking the movement of POD on PC.

With the Wizard, creating complex parts and detailed setting is easily done as you wish. The setting of already arranged parts can be modified easily with the Wizard too.

Applicable models

Select the parts. Select the function. Set the keypad for editing. Set the memory/display format. Set the character attribute. Set the details.

Creative Editor (Screen Editor Software UG00S-CWV4)
When the new screen is created, the minimum initial set-up is performed in the Wizard mode. It makes sure that set-up is performed to get ready to create a new screen.

Screen resizing function
The new function is added to automatically resize the screen. POD screen data of a different resolution can be reused with this function.

Effective reduction of man-hours in screen drawing
Each new screen does not have to be created for a different screen size (resolution). *Manual fine tuning may be required.

Emulator
Emulator function is incorporated in the POD Editor. Only one PC is required for simulation.

Effective reduction of man-hours in screen drawing
POD main body is not necessary for simulation. You can create a new screen by tracking the movement of POD on PC.

Wizard function
A screen is created very quickly just by following instructions of the editor. For example, to display numeric values:

Friendly for a screen drawing beginner
With the Wizard, creating complex parts and detailed setting is easily done as you wish. The setting of already arranged parts can be modified easily with the Wizard too.