Changes for the Better
FACTORY AUTOMATION

# Graphic Operation Terminal GOT2000 Series 

## efoctory

Compact body，clear and bright display


GT25 model 5.7 －inch type debut！
New GT2505－VTBD

## GロTロロロ

Graphic Operation Terminal


GT2505-VTBD recommended functions

Various functions of GT25 are available along with the same functions as GT14


Ethernet
CC-Link IE Field Basic
RS-232
RS-422/485

## 01 GOT Mobile function



Via GOT at the production site, connected devices can be monitored from multiple information devices (clients) such as computers and tablets in a remote location. You can check the production in a timely manner and take necessary actions immediately. Just display the production status on a large monitor, and you can easily implement an ANDON system.

* A separate license (GT25-WEBSKEY) is required.
* A browser (Google Chrome or Safari) is required on the client.
* Up to five clients can connect to one GOT at the same time.
* An access point is required separately because the wireless LAN communication unit cannot be used with GT2505.

For the details, please refer to the GOT Smart Web-based
Remote Solutions (L(NA)08416ENG).


## System launcher/ <br> cat Drivè 03 System launcher (servo network)

## 02 Drive recorder

кот Drive:
GOT can be used to display the screen equivalent to the drive recorder of MR Configurator2. Easily check the servo data (motor current, position command, etc.) on GOT without using a personal computer.

Drive recorder information


Store the data on the GOT's SD memory card or USB memory, and check and analyze in your office.

## 04 Sequence program monitor (Ladder)/(iQ-R ladder)

When an error occurs, GOT can monitor and edit a sequence program in a controller in the ladder format, and also can change current values of devices. There is no need for a personal computer.


A graphical configuration diagram of programmable controller and servo systems indicates module statuses.


Icons show the module status. You can check the module with an error at a glance.

## 05 Operation log

GOT records all the operations performed by operators. Checking the recorded operation history helps you to identify and analyze the cause of the error occurred due to improper operations, leading to making improvements, preventing reoccurrence, and enhancing traceability.


## Panel cut dimensions compatible with existing models

Easy to replace GT14 models because of the same panel cut dimensions．


## Clear display with 4 times higher resolution

Higher resolution while keeping the screen size the same as GT14 models． $640 \times 480$ dots high resolution LCD displays clear characters．


GT2505 system configuration


GOT2000 Series 5．7－inch models functions list

| Item |  |  |  |  | GT2705 | GT2505 | GT2105 | GT1455 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Memory |  | Memory for storage（ROM） |  |  | 32 MB | 32 MB | 9 MB | 9 MB |
|  |  | Memory for operation（RAM） |  |  | 80 MB | 80 MB | － | － |
|  | SRAM user area／D drive |  |  |  | －／－ | － | －／ | － |
|  | Ethernet／CC－Link IE Field Basic |  |  |  | － | － | －／－ | －／－ |
|  | USB host／USB device |  |  |  | － | － | －／ | － |
|  | Extension interface／Side interface |  |  |  | －${ }^{2}$ | － | － | － |
|  | Touch panel simultaneous press （two points） |  |  |  | － | － | － | － |
|  | Vertical display ${ }^{* 1}$ |  |  |  | Rotate $90^{\circ}$ to left | Rotate $90^{\circ}$ to right | Rotate $90^{\circ}$ to right | Rotate $90^{\circ}$ to right |
| Recipe display（record list） |  |  |  |  | － | － | － | － |
| Document display |  |  |  | Memory | － | － | － | － |
| Historical trend graph |  |  |  | （Memory） | － | － | － | － |
|  | Logging |  | （Memory） | （Battery） | － | － | － | － |
| $\cong$ | GOT Mob function |  | License | （Memory） | － | － | － | － |
| $\stackrel{\underset{\sim}{7}}{\underset{\sim}{2}}$ | VNC server function |  |  | License | － | － | － | － |
| Remote personal computer operation function（Ethernet） |  |  |  | License | － | － | － | － |
| Sound output function |  |  |  | Unit | － | － | － | － |
| MES interface function |  |  | License | （Memory） | － | － | － | － |
| Wireless LAN function |  |  |  | Unit | － | － | － | － |
| Operation log |  |  |  | Memory | － | － | － | － |
| Unit |  | Option unit required |  |  |  | License | License | required |
| Memory SD memory card or USB memory required |  |  |  |  |  |  |  |  |
| Battery B |  | Battery required |  |  |  |  |  |  |
| Required depending on conditions of use |  |  |  |  |  |  |  |  |


＊1 Remote personal computer operation function（Ethernet）cannot be used The following screens are displayed horizontally：utility screen，monitor and data management screens that are displayed from the utility screen（sequence program monitor，etc．）．For the details of other GOT operations when placed vertically，please refer to the relevant product manual or the Help．
＊2 For the applicable option units，please refer to the Graphic Operation Terminal GOT2000 Series Catalog（L（NA）08270ENG）or the relevant product manual．
＊3 Up to three communication units can be installed on GT2705．
＊4 No communication units can be installed on GT2505，GT2105，and GT1455．

GT2505-VTBD
Performance specifications

| Item |  | Specifications |
| :---: | :---: | :---: |
| Display section ${ }^{1} 1 \times 2$ | Display device | TFT color LCD |
|  | Screen size | $5.7{ }^{\text {" }}$ |
|  | Resolution | VGA: $640 \times 480$ dots |
|  | Display size | 115.2 (4.54) (W) $\times 86.4$ (3.40) (H) mm (inch) |
|  | Number of displayed characters | 16-dot standard font: 40 characters $\times 30$ lines (two-byte characters) 12-dot standard font: 53 characters $\times 40$ lines (two-byte characters) |
|  | Display color | 65536 colors |
|  | Brightness adjustment | 32 levels |
|  | Backlight | LED (not replaceable) |
|  | Backlight lifet4 | Approx. 60000 h (operating ambient temperature: $25^{\circ} \mathrm{C}$, display intensity: $50 \%$ ) |
| Touch panel'3 | Type | Analog resistive film |
|  | Key size | Minimum $2 \times 2$ dots*8 (per key) |
|  | Simultaneous press | Not available*5 (Only 1 point can be touched.) |
|  | Life | 1 million touches or more (operating force: 0.98 N or less) |
| Panel color |  | Black |
| User memory | User memory capacity | Memory for storage (ROM): 32MB Memory for operation (RAM): 80MB |
|  | Life (number of write times) | 100000 times |
| Built-in clock precision |  | $\pm 90$ seconds/month (ambient temperature: $25^{\circ} \mathrm{C}$ ) |
| Battery |  | GT11-50BAT lithium battery |
|  | Life | Approx. 5 years (ambient temperature: $25^{\circ} \mathrm{C}$ ) |
| Built-in interface | RS-232 | 1 channel Transmission speed: $115200,57600,38400,19200,9600,4800$ bps Connector shape: D-sub 9-pin (male) |
|  | RS-422/485 | 1 channel Transmission speed: $115200,57600,38400,19200,9600,4800$ bps Connector shape: D-sub 9-pin (female) |
|  | Ethernet | 1 channel Data transfer method: 100BASE-TX, 10BASE-TX Connector shape: RJ-45 (modular jack) |
|  | USB (host) | 1 channel (rear face) Maximum transfer rate: High-Speed 480 Mbps Connector shape: USB-A |
|  | USB (device) | 1 channel (front face) Maximum transfer rate: High-Speed 480 Mbps Connector shape: USB Mini-B |
|  | SD memory card | 1 channel, SDHC compliant (maximum 32 GB ) |
|  | Extension interface | - |
|  | Side interface | - |
| Buzzer output |  | Single tone (tone and tone length adjustable) |
| POWER LED |  | 2 colors (blue and orange) |
| Protective structure*6 |  | Front: IP67F'7*9 Inside control panel: IP2X |
| Safety standards, radio laws (as of August 2017) |  | CE, UL, CUL, EAC, KC |
| External dimensions |  | 164 (6.46) (W) $\times 139$ (5.47) (H) $\times 53.5$ (2.11) (D) mm (inch) |
| Panel cut dimensions |  | 153 (6.02) (W) × 121 (4.76) (H) mm (inch) |
| Weight (excluding a fitting) |  | 0.6 (1.3) kg (lb) |
| Compatible software package |  | GT Works3 Version1.180N or later |

*1 As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged.
*2 Flickering may occur due to vibration, shock, or the display colors
*3 When a stylus is used, the touch panel has a life of 100 thousand touches. The stylus must satisfy俍
To prevent the display section from
If you touch two points or more simultaneously on the touch panel, a touch switch near the touched points may operate unexpectedly. Do not touch two points or more simultaneously on the touch panel.
"6 Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or soaked in oil mist.
To conform to IP67F, close the USB environmental protection cover by pushing the [PULL] mark firmly
(The GOT conforms to IP2X when the USB environmental protection cover is open.)
The minimum size of a key that can be arranged. To ensure safe use of the product, the following settings are recommended.
or more
suffix "F" of IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920

## External dimensions



The release date varies depending on the product and your region. For details, please contact your local sales office.
The actual color may differ slightly from the pictures in this catalog. The actual display may differ from what are shown on GOT screen images.

## General specifications

(IB(NA)

## Power supply specifications

| Item | Specifications |
| :---: | :---: |
| Power supply voltage | 24 V DC (+10\%, -15\%) |
| Power Under the maximum load | 8.4 W or less |
| Power Main unit $\square$ | 4.3 W |
| Main unit (backlight OFF) | 2.6 W |
| Inrush current | 42 A or less ( 2 ms , ambient temperature: $25^{\circ} \mathrm{C}$, under the maximum load) |
| Permissible instantaneous power failure time | 10 ms or less |
| Noise immunity | Noise voltage: 1000 Vp-p, noise width: $1 \mu \mathrm{~s}$, measured by a noise simulator with noise frequency ranging from 30 Hz to 100 Hz |
| Withstand voltage | 500 V AC for 1 minute across power terminals and earth |
| Insulation resistance | 500 V DC across power terminals and earth, $10 \mathrm{M} \Omega$ or more by an insulation resistance tester |

## Product list

| Classification | Model | Specifications, remarks |
| :---: | :---: | :---: |
| GOT | GT2505-VTBD | Display: 5.7" VGA, TFT color LCD: 65536 colors, Panel color: black, Power supply: 24 V DC |
| RS-232/485 signal conversion adapter | GT14-RS2T4-9P | For connecting the RS-232 (D-sub 9-pin connector) and RS-485 (terminal block) |
| Protective sheet | GT25-05PSGC-2 | Antiglare type, Transparent, With a hole for the USB environmental protection cover, A set of 5 sheets |
|  | GT25-05PSCC-2 | Clear type, Transparent, With a hole for the USB environmental protection cover, A set of 5 sheets |
| USB environmental protection cover | GT21-WUCOV | Environmental protection cover for the USB interface on the GOT front face (for replacement) |
| Stand | GT05-50STAND | For 5.7" |
| SD memory card | NZ1MEM-2GBSD | SD memory card for GOT, 2 GB |
|  | NZ1MEM-4GBSD | SDHC memory card for GOT, 4 GB |
|  | NZ1MEM-8GBSD | SDHC memory card for GOT, 8 GB |
|  | NZ1MEM-16GBSD | SDHC memory card for GOT, 16 GB |
| Battery | GT11-50BAT | Battery for backup of SRAM data, clock data, and system status log data (for replacement) |
| Panel-mounted USB port extension | GT14-C10EXUSB-4S | Cable length: 1 m , for routing the USB port (host) of the GOT rear face to the front side of the control panel |
| HMI/GOT Screen Design Software MELSOFT GT Works3 | SW1DND-GTWK3-E | English Version, standard license product*1, DVD-ROM |
| GOT Mobile Function License"2 | GT25-WEBSKEY-1 | 1 license |

1 Volume license product and additional license product are also available. For details, 21 license is required for 1 soles office.

For inquiries relating to the latest status of conforming to various standards and laws (CE, UL/ CUL, EAC, KC, and maritime certifications [ABS/BV/DNV GL/LR/NK/RINA]], please contact your local sales office.


## Precautions for safe use

To use the products given in this publication properly, always read the relevant manuals before beginning operation.

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