MITSUBISHI
ELECTRIC
FACTORY AUTOMATION

GOT 1000

Graphic Operation Terminals

More Perspective in the Automation

From data display to problem solution platform

Now with the new GT12 series!

SPEED UP
Powerful 64-bit RISC processor and high memory capacity means faster operation and clearer displays

IMPROVED COMMUNICATION
Easy access USB port for programming and maintenance

MORE FLEXIBILITY
Manifold possibilities for storing and transporting project data

SIMPLER OPERATION
Full iQ platform integration possibility

Clear vision

HMI's can help users see what is happening anywhere in their process, like in a PET production.

Mitsubishi GOTs help you to keep the look through.

More than just an operation terminal

Mitsubishi Electric has once again set new standards in human machine communication with the new GOT1000 series of touch-screen operation terminals. Providing the features customers have been asking for was a top priority in the design of these units – combined with advanced technology and the experience drawn from a long history of HMI design. The result is products that will make work easier for programmers and service staff as well as operators.

Powerful technology

These new terminals don't just look good, they are also packed with many powerful features:

■ Expressive high-resolution screens
The high-resolution screens, with up to 65,536 colours, can display complex graphics, photos and even CAD drawings. User inputs are made by touching the screen (touch-screen).

■ High-speed processing
The 64-bit RISC processor used in the GOT1000 series is combined with a specially developed high-speed graphics processor. Together, they deliver impressive response and display drawing times.

Easy to use touch screen

■ USB port
Thanks to the integrated* USB port an easy data transfer is possible. This connection can also be used for programming and diagnostics with a MELSEC PLC or further automatization devices. With the units, where the port is located on the frontside (see table on the back for details), it is possible to transfer project data without opening the cabinet or control console. These ports come with a secure cover that maintains the IP67 protection rating.

*not for GT1020/1030

■ More flexibility with portable operation terminals
The GOT series range covers also portable versions (Handy GOTs), which allow a flexible usage of the operation terminal at the respective application.

Application directly at the machine

Innovative design

The GOT1000 series' innovative error reporting system ensures fast trouble-shooting and minimum downtime. Predefined screens provide direct access to the PLC's I/Os and even the buffer memory of special-function modules.

Brilliant colours in high resolution

Versatile and multi-lingual

■ **Extended protocol support**

In addition to the wide ranging support for Mitsubishi PLC's, frequency inverters and servo amplifiers, GOT1000 series can also be connected to an increasing range of automation products from other manufacturers. This enables users to start to built a common visualization strategy for their business.

■ **Multi-language with Unicode 2.1**

Support for Unicode 2.1 enables users to easily create multi-language displays. This can then help companies who export machines to sell and support their products globally.

■ **Scripts for reduced PLC load**

The processing load applied to the connected PLC CPU or other automation equipment can be reduced when the GOT processes scripts. These scripts are unique to the GOT and are similar to the C programming language. They allow programmers to use their favorite commercial editors to move some of the processing activities from the PLC into the GOT.

Improved screen design software

The GT Works software package from Mitsubishi Electric is an extended suite of programming, control and visualisation tools with full support for the GOT family of terminals.

The main component is the user-friendly and intuitive GT Designer operation terminal management program. A comprehen-

sive library of ready-to-use graphical objects and a large selection of fonts makes it easy to produce effective user screens. Furthermore, the integrated GT Simulator allows a quick and efficient set up process for all GOT terminals.

Also included is the GT-SoftGOT1000 software, which enables you to run GOTprojects on a PC without the GOT hardware – turning the PC into a powerful PC-based HMI system.

Specifications ///

Technical data		GT10 (10 units)	GT11 (4 units)	GT12 (2 units)	GT15 (24 units)	GT16 (12 units)
Display	type	STN	STN	TFT	STN, TFT	TFT
	dimensions (diagonal)	3.7"–4.5"	5.7"	8.4"–10.4"	5.7"–15"	8.4"–15"
	text (lines x characters)	Freely definable	Freely definable	Freely definable	Freely definable	Freely definable
	character hight (mm)	Freely definable, Windows fonts	Freely definable, Windows fonts	Freely definable, Windows fonts	Freely definable, Windows fonts	Freely definable, Windows fonts
	max. resolution (pixle)	160 x 64/288 x 96	320 x 240	640x480	320 x 240 to 1024 x 768	640 x 480 to 1024 x 768
Power supply		5 V DC/24 V DC	24 V DC	100–220 V AC	24 V DC/220 V AC	24 V DC/220 V AC
Memory capacity		512 KB/1.5 MB	3 MB	6 MB	5–9 MB (expandable to 57 MB)	15 MB (expandable to 57 MB)
External memory card		—	1 (CF, 2 GB max.)	1 (CF, 2 GB max.)	1 (CF, 2 GB max.)	1 (CF, 2 GB max.)
Key type		Touch panel	Touch panel	Touch panel	Touch panel	Touch panel
Function keys		Touch keys	Touch keys + 6 function keys	Touch keys	Touch keys	Touch keys
LED indicators		—	1 (Power ON)	1 (Power ON)	1 (Power ON)	1 (Power ON)
Interfaces	serial	2 x RS232, RS422/RS232	RS232C, RS422	RS232, RS422/RS485	RS232	RS232, RS422/RS485
	others	USB wiht out GT1020/1030	USB	USB	USB (at the front)	2 x USB (at the front)
Networks capability		Serial	Serial	Ethernet (TCP/IP)	Ethernet (TCP/IP), CC-Link, RS422, RS485, A-Bus, Q-Bus, MELSECNET/10/H	Ethernet (TCP/IP), CC-Link, RS422, RS485, A-Bus, Q-Bus, MELSECNET/10/H
Protection (front)		IP67	IP67/IP65 (Handy GOTs)	IP67	IP67	IP67

GT1020/ GT1030
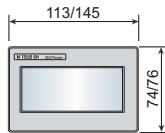
GT1040, 1045/ GT1050, 1055
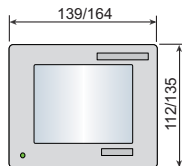
GT1150, GT1155
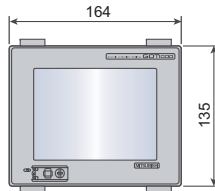
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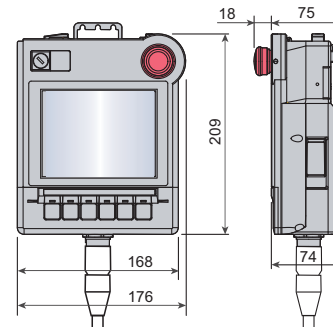
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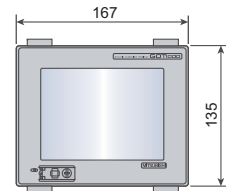
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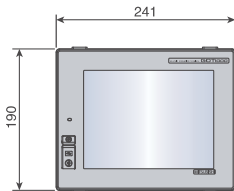
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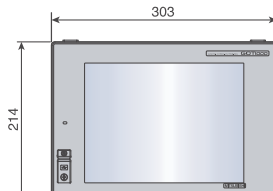
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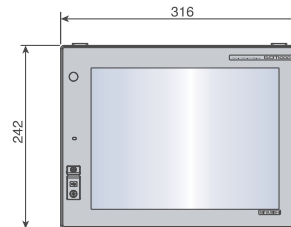
GT1595, GT1695

All dimensions in mm