MITSUBISHI
ELECTRIC
FACTORY AUTOMATION

GOT1000

Graphic Operation Terminals

More Perspective in the Automation
From data display to problem solution platform

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.

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.

Mitsubishi GOTs help you to keep the look through

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

Innovatives Design

The GOT1000 series' innovative error reporting system ensures fast troubleshooting 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, which is part of the iQ Works software suite, 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 comprehensive 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.
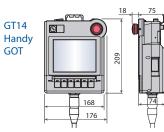
Specifications ///

GOT-Serie		GT10 (14 models)	GT11 (5 models)	GT12 (4 models)	GT14 (4 models)	GT16 (19 models)
Display	type	STN	STN	TFT color LCD	STN, TFT	TFT
	type (Screen size)	3,7" / 4,5"/4,7"/5,7"	5,7"	10,4"/8,4"	5,7"	6,5"–15"
	text	User definable	User definable	16-dot standard font: 40 chars. x 30 lines 12-dot standard font: 53 chars. x 40 lines	User definable	User definable
	max. resolution (pixle)	160x64/288x96/320x240	320x240	640x480	320x240	640x480–1024x768
Power supply		5 V DC/24 V DC	24 V DC	100–240 V AC	24 V DC	24 V DC/220 V AC
Memory capacity		512 KB/1,5 MB/3,0 MB	3 MB	6 MB	9 MB	15 MB (expandable up to 57 MB)
External memory card		—	1 (Compact-Flash, 2 GB max.)	1 (Compact-Flash, 2 GB max.)	1 (SD/SDHC)	1 (Compact-Flash)
Key type		Touch-panel	Touch-panel	Touch-panel	Touch-panel	Touch-panel
Function keys		Touch keys	Touch keys (+ 6 function keys for hand-held GOT)	Touch keys	Touch keys	Touch keys (+ 6 function keys for hand-held GOT)
Inter-faces	serial	2 x RS232, RS422/RS232 (modellabhängig)	RS232, RS422	RS232, RS422/485	RS232, RS422/485	RS232
	others	GT104☐/GT105☐: USB (back side)	USB (front)	USB (back side)	2 x USB (back side)	USB (front), USB host for memory stick
Networks capability		Serial (up to 16 GOTs connected to FX PLC/Q PLC/MODBUS RTU via Master-Unit)	Serial (up to 16 GOTs connected to FX PLC/Q PLC/MODBUS RTU via Master-Unit)	Ethernet (TCP/IP) Modbus TCP	Ethernet (TCP/IP), Modbus TCP	Ethernet (TCP/IP), CC-Link (IE), RS232, RS422, RS485, A-Bus, Q-Bus, MELSECNET/10/H, Modbus TCP
Protection (front)		IP67	IP67/IP65 (Handy GOTs)	IP67	IP67	IP67

GT1020/ GT1030

GT1040, GT1045/ GT1050, GT1055

GT1150, GT1155

GT14 Handy GOT

GT16 Handy GOT

GT1450, GT1455

GT1262, GT1665

GT1275, GT1675

GT1685

GT1695

All dimensions in mm

Version check

![Mitsubishi Electric] **MITSUBISHI ELECTRIC**
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