Product Information

EBG 234-EN

MITSUBISHI ELECTRIC
FACTORY AUTOMATION

GT14

Graphic Operator Terminals

Next generation HMIs

The new standard for 5.7" touch panels

MORE FLEXIBILITY — Multi-channel and data-logging functions as standard

INTELLIGENT DESIGN — 320x240 pixels TFT screen displaying 65,536 colours

IMPROVED COMMUNICATION — Ethernet, RS422/485 and USB interfaces

SIMPLER OPERATION — Seemless connection to Mitsubishi Automation products

Setting new standards for price and performance

Test modifications without disrupting production

The GT14 is the latest addition to the GOT1000 series of HMIs, and sets new performance benchmarks for mid-range, 5.7" panel mount terminals. Boasting all the functions for which Mitsubishi Electric HMIs have become renowned, at prices which make them one of the most cost-effective on the market, these new operator terminals offer a host of new features and benefits, including an SD card slot, USB ports, Ethernet communications options, a TFT screen capable of displaying 65,536 colours, LED backlighting and analogue touch functionality.

The GT14 is a 5.7" HMI, available in both monochrome (STN) and colour (TFT) versions, providing a screen resolution of 320x240 pixels, and a host of features and functions that bring increased flexibility and capability to control systems.

The long-life LED backlighting ensures ease of viewing in a range of lighting conditions.

Enhanced connectivity

A key feature of the GT14 is the range of different devices to which it can connect. RS232 and RS422/485 ports provide connectivity to PCs for programming and data upload, as well as to serial devices such as bar code readers. The addition of an Ethernet port provides high speed connectivity to other networked devices, including PLCs. USB ports enable the connection of a keyboard or mouse, as well as memory sticks for program downloads/back-ups and data storage.

In addition to the conventional USB port on the rear of the terminal, the GT14 also features a USB port on the front face, making it easier to transfer data to and from the terminal without having to open up the panel. The USB port is protected by a cover which maintains the overall IP67f protection of the panel.

Completing the communications possibilities, the GT14 is the first model in the GOT1000 series to feature an SD card slot, enabling standard SD cards to be used for logging and back-up/restore functions for programs and parameters.

Further enhancing connectivity within an integrated system, the GT14 offers a FA Transparent function which enables a computer connected to the GT14 to connect seamlessly with other Mitsubishi Electric factory automation products such as PLCs, inverters and servo amplifiers for programming or troubleshooting.

Enhanced functionality

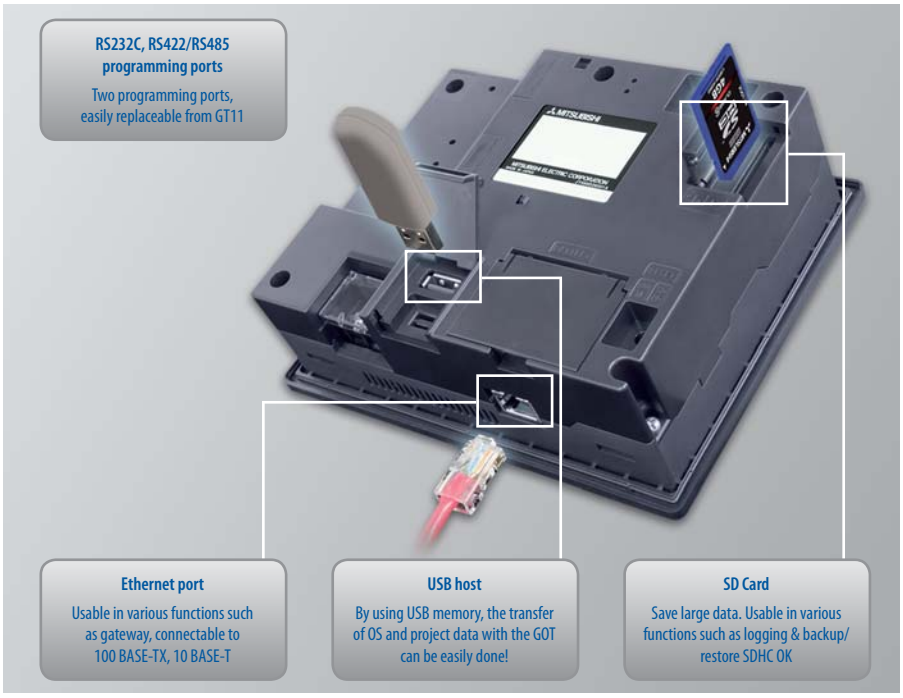
With internal memory expanded to 9 MB as standard, the GT14 can save up to 2,000 data points, while SD cards and USB memory sticks can provide additional memory for storing or transferring data. In addition, for increased flexibility, the GT14 is able to log data from multiple connected devices such as PLCs and temperature controllers. In addition, with its multi-channel function, a single GT14 can monitor and control up to two channels of factory automation products connected either over Ethernet or serial communications. For example, you could connect a PLC with a servo amplifier to one channel and a frequency inverter or temperature controller to the other, and then alternate between the two to monitor both devices.

Enjoy the brightness of the GT14 TFT screen with 65536 colours and LED backlight

Benchmark capabilities

The GT14 offers a host of features and functions as standard that are normally only available on much more expensive HMIs. Complementing its data logging capabilities, the GT14 features recipe and alarm management, multi-level security access and password protection, trending displays and scripting functions. The high speed and powerful microprocessor ensures that the touchscreen interface is always fast and responsive.

In addition, GT14 units come with multiple user interface languages pre-installed, along with Unicode support that enables display of a large number of international character sets. This makes it very easy to reconfigure and customise machine control interfaces for worldwide deployment.

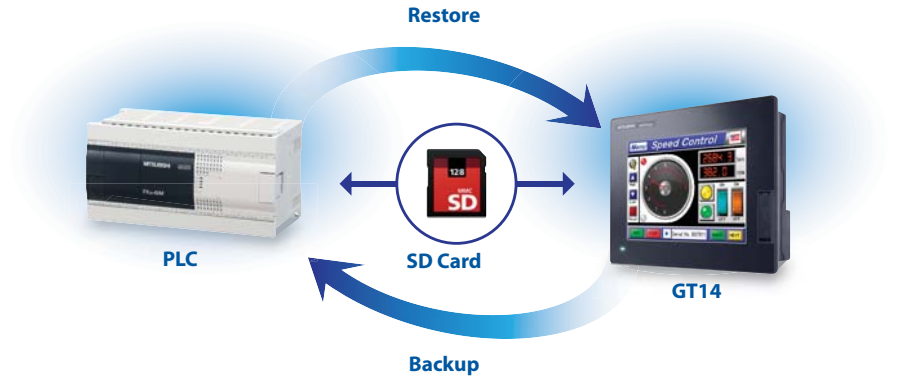


A broad variety of interfaces like Ethernet, USB, RS232 and RS422/485 ports and SD card slot is one key feature of the GT14

Simple programming

The GT14 is equipped with a comprehensive library of common functions, objects and shapes, enabling you to build projects quickly and easily. The GT14 is also fully compatible with Mitsubishi Electric's GT Works3 software for screen design. Reducing screen development time by up to 70 % when compared with conventional HMI programming environments. GT Works3 provides a comprehensive suite of software tools that simplify installation as well as data handling and maintenance tasks.

The main component is the intuitive and user-friendly GT Designer HMI software. It comes with a full library of ready-to-use graphics objects and a large number of fonts for building informative and intuitive interface screens. Together with the integrated GT Simulator, it enables you to get your HMI projects up and running without the traditional debugging and fault-finding headaches.



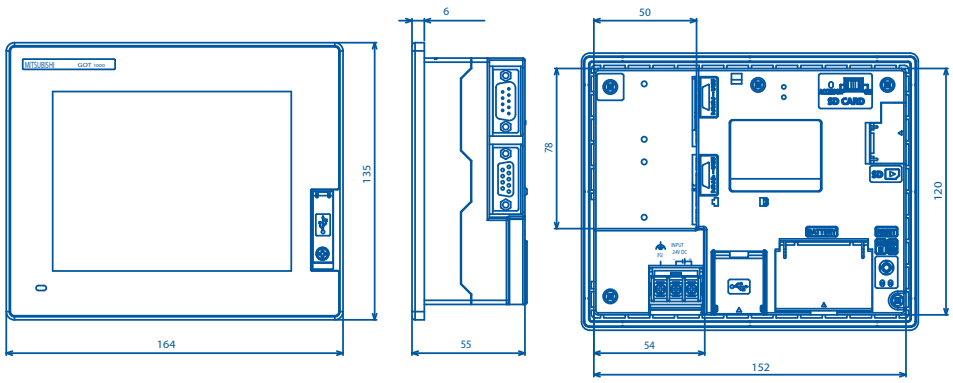
SD cards and USB's provide additional memory

User friendly GT Designer HMI software

Specifications ///

			GT1455-QTBDE	GT1450-QLBDE
Power	Input supply		24 V DC (+10 %, -15 %)	
	Consumption		Less than 8.40 W	
Display	Type		TFT LCD	Monochrome LCD
	Size WxH	[mm]	115x86	
	Touch panel		Analog resistive film	
	Backlight		70,000 h or longer	
Memory			9 Mbytes built-in flash memory	
Built-in interface	RS422/485		D-Sub 9pin (female)	
	RS232		D-Sub 9pin (male)	
	Ethernet		100 BASE-TX, 10 BASE-T	
	USB		TYPE-A USB (Full Speed 12 Mbps), host	
			Mini-B USB (Full Speed 12 Mbps), device	
	SD card		Supports: SDHC memory card, SD memory card	
Environment	Operating temperature		0–50 °C	
	Storage temperature		-20–60 °C	
	Ratings		IP67f (front panel only)	
External dimensions WxHxD		[mm]	164x135x55	
Weight			0.7 kg	
Programming			GT Designer3 version 1.37P or later	

GT1455-QTBDE/GT1450-QLBDE



All dimensions in mm

EUROPEAN BRANCHES

MITSUBISHI ELECTRIC EUROPE B.V. **GERMANY**
Gothaer Straße 8
D-40880 Ratingen
Phone: +49 (0)2102 / 486-0

MITSUBISHI ELECTRIC EUROPE B.V.-org.sl. **CZECH REP.**
Radlická 714/113a
CZ-158 00 Praha 5
Phone: +420 - 251 551 470

MITSUBISHI ELECTRIC EUROPE B.V. **FRANCE**
25, Boulevard des Bouvets
F-92741 Nanterre Cedex
Phone: +33 (0)1 / 55 68 55 68

MITSUBISHI ELECTRIC EUROPE B.V. **ITALY**
Viale Colleoni 7
I-20041 Agrate Brianza (MB)
Phone: +39 039 / 60 53 1

MITSUBISHI ELECTRIC EUROPE B.V. **POLAND**
Krakowska 50
PL-32-083 Balice
Phone: +48 (0)12 / 630 47 00

MITSUBISHI ELECTRIC EUROPE B.V. **RUSSIA**
52, bld. 3 Kosmodamianskaya nab 8 floor
RU-115054 Moscow
Phone: +7 495 721-2070

MITSUBISHI ELECTRIC EUROPE B.V. **SPAIN**
Carretera de Rubí 76-80
E-08190 Sant Cugat del Vallés (Barcelona)
Phone: 902 131121 // +34 935653131

MITSUBISHI ELECTRIC EUROPE B.V. **UK**
Travellers Lane
UK-Hatfield, Herts. AL10 8XB
Phone: +44 (0)1707 / 27 61 00

EUROPEAN REPRESENTATIVES

GEVA **AUSTRIA**
Wiener Straße 89
AT-2500 Baden
Phone: +43 (0)2252 / 85 55 20

TECHNIKON **BELARUS**
Oktyabrskaya 19, Off. 705
BY-220030 Minsk
Phone: +375 (0)17 / 210 46 26

ESCO D & A **BELGIUM**
Culliganlaan 3
BE-1831 Diegem
Phone: +32 (0)2 / 717 64 30

Koning & Hartman b.v. **BELGIUM**
Woluwelaan 31
BE-1800 Vilvoorde
Phone: +32 (0)2 / 257 02 40

INEA RBT d.o.o **BOSNIA AND HERZEG.**
Aleja Lipa 56
BA-71000 Sarajevo
Phone: +387 (0)33 / 921 164

AKHNATON **BULGARIA**
4, Andrei Ljapchev Blvd., PO Box 21
BG-1756 Sofia
Phone: +359 (0)2 / 817 6000

INEA RBT d.o.o. **CROATIA**
Losinjska 4 a
HR-10000 Zagreb
Phone: +385 (0)1 / 36 940 - 01/ -02/ -03

AutoCont C.S. s.r.o. **CZECH REPUBLIC**
Technologická 374/6
CZ-708 00 Ostrava-Pustkovec
Phone: +420 595 691 150

Beijer Electronics A/S **DENMARK**
Lykkegårdsvej 17
DK-4000 Roskilde
Phone: +45 (0)46/ 75 76 66

Beijer Electronics Eesti OÜ **ESTONIA**
Pärnu mnt.160i
EE-11317 Tallinn
Phone: +372 (0)6 / 51 81 40

Beijer Electronics OY **FINLAND**
Peltoie 37
FIN-28400 Ulvila
Phone: +358 (0)207 / 463 540

UTECO **GREECE**
5, Mavrogenous Str.
GR-18542 Piraeus
Phone: +30 211 / 1206 900

MELTRADE Kft. **HUNGARY**
Fertő utca 14.
HU-1107 Budapest
Phone: +36 (0)1 / 431-9726

TOO Kazpromavtomatika **KAZAKHSTAN**
Ul. Zhambyla 28
KAZ-100017 Karaganda
Phone: +7 7212 / 50 10 00

Beijer Electronics SIA **LATVIA**
Ritausmas iela 23
LV-1058 Riga
Phone: +371 (0)784 / 2280

Beijer Electronics UAB **LITHUANIA**
Savanoriu Pr. 187
LT-02300 Vilnius
Phone: +370 (0)5 / 232 3101

ALFATRADE Ltd. **MALTA**
99, Paola Hill
Malta - Paola PLA 1702
Phone: +356 (0)21 / 697 816

INTEHSIS srl **MOLDOVA**
bld. Traian 23/1
MD-2060 Kishinev
Phone: +373 (0)22 / 66 4242

HIFLEX AUTOM. B.V. **NETHERLANDS**
Wolweverstraat 22
NL-2984 CD Ridderkerk
Phone: +31 (0)180 – 46 60 04

Koning & Hartman b.v. **NETHERLANDS**
Haarlerbergweg 21-23
NL-1101 CH Amsterdam
Phone: +31 (0)20 / 587 76 00

Beijer Electronics AS **NORWAY**
Postboks 487
NO-3002 Drammen
Phone: +47 (0)32 / 24 30 00

Fonseca S.A. **PORTUGAL**
R. João Francisco do Casal 87/89
PT - 3801-997 Aveiro, Esgueira
Phone: +351 (0)234 / 303 900

Sirius Trading & Services **ROMANIA**
Aleea Lacul Morii Nr. 3
RO-060841 Bucuresti, Sector 6
Phone: +40 (0)21 / 430 40 06

INEA RBT d.o.o. **SERBIA**
Izletnicka 10
SER-113000 Smederevo
Phone: +381 (0)26 / 615 401

SIMAP s.r.o. **SLOVAKIA**
Jána Derku 1671
SK-911 01 Trenčín
Phone: +421 (0)32 743 04 72

PROCONT, spol. s r.o. Prešov **SLOVAKIA**
Kúpelná 1/A
SK-080 01 Prešov
Phone: +421 (0)51 7580 611

INEA RBT d.o.o. **SLOVENIA**
Stegne 11
SI-1000 Ljubljana
Phone: +386 (0)1 / 513 8116

Beijer Electronics AB **SWEDEN**
Box 426
SE-20124 Malmö
Phone: +46 (0)40 / 35 86 00

Omni Ray AG **SWITZERLAND**
Im Schörli 5
CH-8600 Dübendorf
Phone: +41 (0)44 / 802 28 80

GTS **TURKEY**
Bayraktar Bulvari Nutuk Sok. No:5
TR-34775 Yukarı İSTANBUL
Phone: +90 (0)216 526 39 90

CSC Automation Ltd. **UKRAINE**
4-B, M. Raskovoyi St.
UA-02660 Kiev
Phone: +380 (0)44 / 494 33 55

Systemgroup **UKRAINE**
2 M. Krivonosa St.
UA-03680 Kiev
Phone: +380 (0)44 / 490 92 29

I.C. SYSTEMS LTD. **EGYPT**
23 Al-Saad-Al-Alee St.
EG - Sarayat, Maadi, Cairo
Phone: +20 (0) 2 / 235 98 548

ILAN & GAVISH Ltd. **ISRAEL**
24 Shenkar St., Kiryat Arie
IL-49001 Petah-Tiqva
Phone: +972 (0)3 / 922 18 24

CEG INTERNATIONAL **LEBANON**
Cebaco Center/Block A Autostrade DORA
Lebanon - Beirut
Phone: +961 (0)1 / 240 430

CBI Ltd. **SOUTH AFRICA**
Private Bag 2016
ZA-1600 Isando
Phone: + 27 (0)11 / 977 0770

Version check

MITSUBISHI ELECTRIC
FACTORY AUTOMATION

Mitsubishi Electric Europe B.V. /// FA - European Business Group /// Gothaer Straße 8 /// D-40880 Ratingen /// Germany
Tel.: +49(0)2102-4860 /// Fax: +49(0)2102-4861120 /// info@mitsubishi-automation.com /// www.mitsubishi-automation.com

Specifications subject to change /// Art. no. 253281-A /// 06.2012

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