MITSUBISHI ELECTRIC
FACTORY AUTOMATION

GT12

Graphic Operation Terminals

All-in-one HMIs

Big format – small price

IMPROVED QUALITY — Big, bright colour displays for exceptional readability

COST-EFFECTIVE — Cost-effective visualisation solution for a wide range of machines and factory applications
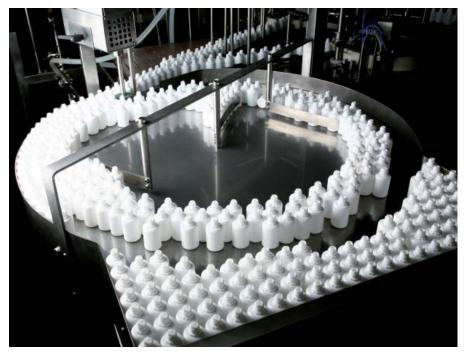
DESIGN FLEXIBILITY — Flexible communication capabilities with comprehensive integrated interfaces

FULL INTEGRATION — Fully compatible for deployment with Mitsubishi iQ Platform

Flexible configuration and expansion

The GT12 series of HMIs make it easier to monitor and control your processes.

The GT12 has been designed from the ground up to interoperate smoothly with other Mitsubishi Electric products. It extends the existing product line, providing cost-effective solutions for a wide range of HMI applications with 8-10 inch display panel units (diagonal measurement).

Built for smooth interoperation with other Mitsubishi Electric products

The next-generation GOTs

The new GT12 series is the fourth generation of Mitsubishi Electric's GOT1000 family of graphic operation terminals. With its comprehensive capabilities, this series caters to a very wide range of applications and opens up new perspectives for customers who favour complete, integrated solutions with all components from Mitsubishi. In addition to this, the GT12 series' combination of innovative operating and display functions and low cost make it a very attractive alternative in a market where purchasing decisions are often dictated by cost-efficiency considerations as well as functionality.

A wealth of intelligent functions

The functionality of the GT12 series HMIs is very impressive: Many of the innovative maintenance and troubleshooting functions familiar from the high-end GT15 and GT16 series are already included in the standard configurations. For example, the GT12 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.
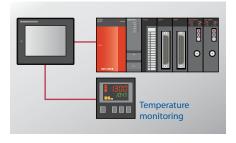
In addition to this, the GT12 also features recipe and alarm management, multi-level security access and password protection, data logging, trending displays, backup and storage options, scripting and a multi-channel function. And the high speed of the powerful integrated microprocessor ensures that the touchscreen interface is always fast and responsive.

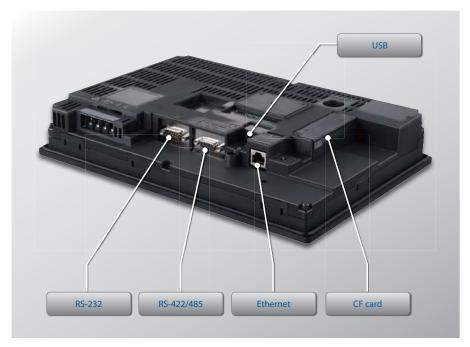# Excellent visualisation and operation

One of the major competitive advantages of the GT12 series of HMIs is the clear, bright and legible LCD screen with its VGA resolution (640 x 480 pixels), which make it possible to use the units for a very wide range of applications. The high display resolution enables clear graphical representation of machine data with high information density. The touchscreen interface is instantly intuitive and easy to use. All operations are displayed clearly and legibly on the configurable display, making it easy for the operators to understand the processes and ensuring that they can respond quickly.

Multi-channel function

The integrated multi-channel function enables simultaneous connection of different automation components on two separate channels. For example, you can connect a PLC with a servo amplifier to one channel and a frequency inverter drive or a temperature controller to the other channel and then alternate between the two to monitor both devices.

USB

| RS-232 | RS-422/485 | Ethernet | CF card |

Versatile integrated communications options

Temperature monitoring

You can reduce the load on the PLC by not connecting all devices to it directly.

Comprehensive communications

The GT12 series units have comprehensive communications support with a variety of interfaces and connections for many different protocols and devices. This enables efficient and fast programming, high-speed data access and efficient work.

The HMIs come with an integrated Ethernet port that enables fast and trouble-free connection to PLCs or other host systems with Ethernet support.

The GOTs also have integrated RS-232 and RS-422/RS-485 ports for connection of a very wide range of different devices. These ports can also be used as a cost-effective multi-device connections. For example, you can connect two HMIs to a single PLC with just one cable by daisy-chaining the two HMI units in series.

The integrated USB port enables fast programming of the operator terminal. In "transparent" mode you can also use the USB port for programming and troubleshooting Mitsubishi PLCs, frequency inverter drives and servo amplifiers.

Quick and easy programming

You can configure your HMIs with the GT Works programming software package, which runs on any Windows® PC. Application programs created with GT Works are transferred to the GOT's memory via the integrated USB port.
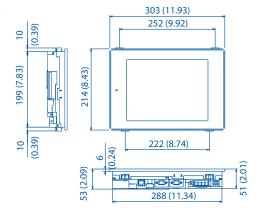
GT Works from Mitsubishi Electric is a comprehensive programming, control and visualisation package that is designed specifically for the needs and capabilities of the GOT family.
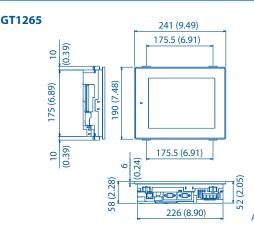
The main component is the intuitive and user-friendly GT Designer HMI software. It comes with a comprehensive library of ready-to-use graphics objects and a large number of fonts for building informative user interface screens. Together with the integrated GT Simulator, it enables you to get your HMIs up and running quickly and easily.

Specifications ///

		GT1275-VNBA	GT1265-VNBA
Display	Type	Color TFT LCD	
	Diagonal size	10.4"	8.4"
	Resolution	640 x 480 pixels	
	Dimensions (WxH)	211.2x158.4 mm	170.9x128.2 mm
	Number of educible colors	256 colors	
	Viewing angles	Right/left: 45°, Up/down: 20°	
	Brightness	200 cd/m²	
Input type		Analog touchscreen	
Memory	C drive	6MB integrated Flash memory (for storing project data and the operating system)	
	Integrated SRAM	512 KB	
	Expansion	Slot for Type 1 CompactFlash cards	
Communications ports		RS-232, RS-422/485, Ethernet 100BASE-TX, USB (12Mbps)	
Protection		Front: IP67f	
External dimensions (WxHxD)		303x214x53 mm	241x190x58 mm
Weight (without mounting bracket)		2.3 kg	1.7 kg
Ambient temperature		0–50 °C	
Power supply		100–240 V AC (+10 %, -15 %), 50/60 Hz ±5 %	
Power consumption		max. 18 W	
Recommended software for programming display screens		GT Designer3 Version 1.01B or later	

GT1275

303 (11.93)
252 (9.92)
10 (0.39)
199 (7.83)
214 (8.43)
10 (0.39)
222 (8.74)
6 (0.24)
53 (2.09)
288 (11.34)
51 (2.01)

GT1265

241 (9.49)
175.5 (6.91)
10 (0.39)
175 (6.89)
190 (7.48)
175.5 (6.91)
10 (0.39)
6 (0.24)
58 (2.28)
226 (8.90)
52 (2.05)

All dimensions in mm