MITSUBISHI
ELECTRIC
FACTORY AUTOMATION

GT1020/1030

Graphic Operation Terminals

The Micro-GOT Generation
Small, Flexible and Easy to Use

ULTRA COMPACT	**Ultra compact design with flexible mounting options**
TOUCH SCREEN	**Bright 3.7 and 4.5 inch liquid crystal touch screen display**
INNOVATIVE SOLUTIONS	**Innovative alarming, messaging and recipe management**
MULTI LANGUAGE	**Multi-language and True Type font support**

Creative Visual Solutions in a Compact Design

Reporting and control of tank levels, temperature and flow rates are just some of the applications the GT1020/1030 HMI can be used for.

The GOT1000 platform is a family of high performance Graphical Operator Terminals (GOT). It combines the best in performance, graphics and functionality in a unique, ultra compact and robust package.

Small dimensions, high function capabilities

GT1020/1030 – The first micro GOTs

■ High resolution touch screen

The new GT1020/1030 series has a bright 3.7-inch resp. 4.5-inch STN black-and-white liquid crystal display with touch screen and 3-color backlight for use in a variety of display applications. These micro units are micro only in size. They are full of high function capabilities which deliver outstanding benefits.

GT1030

GT1020

High resolution LCD and up to 50 touch keys per screen offers outstanding user flexibility.

■ Intelligent functionality

Recipe management, innovative alarming and messaging are included as standard. The unit has a built-in memory for up to 4000 16-bit data words which can be used to store or exchange data with a connected PLC.

A multilevel security protection is implemented as well as graphical trending, data sampling and time scheduling functions .

High speed response to touch operations is guaranteed due to the fast processing speed of the internal processor.

Ease of use

■ Easy screen design

Thanks to the touch panel design, touch keys can be quickly created and placed in a any position with 1 pixel accuracy.

■ Multi-language operation

The GT1020/1030 can display a number of languages for a variety of countries and areas.

Language switching windows can be easily created allowing up to 10 languages to be switched between.

Window switching can take place not only for languages but also for different applications.

■ Free font selection

A variety of fonts are available including the standard type set and the windows type set. When windows fonts are selected, italic, underlined and underlined italic are also available.

■ Versatile mounting

Both horizontal and vertical mounting is available to meet the needs of different applications.
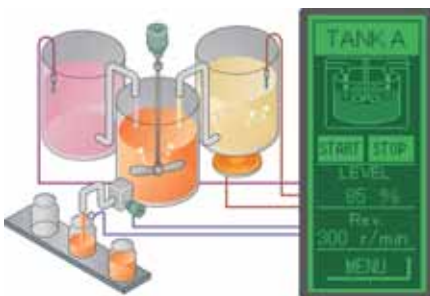
Application example for vertical mounting

Enhanced visualization

Thanks to the 3-color backlight screen of the GT1020/1030 both flashing screens and different screen colors can be selected based on the type of information being displayed. Depending on the terminal type it is possible to switch between red, orange and green or white, pink and red. For example, a PLC value could be used to switch the backlight status from green (condition OK) to red (warning).
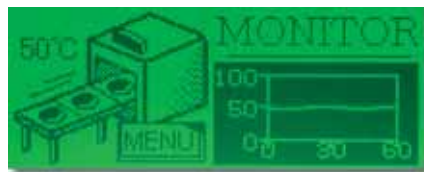
Normal operation srceen during automatic operation, etc.

Manual operation screen during setup change, etc.

Warning screen during material shortage, etc.

Simple connectivity

■ Connector for communication with a PLC

The GT1020/1030 are available with different models for RS232 and RS422 connection to the monitored device, for example Mitsubishi automation components or third party devices.

■ Personal computer interface

The PC interface on the rear of the GOTs allows direct connection to a personal computers or laptop for sequence program adjustment, monitoring, testing and debugging.

■ Multi-unit connection for high cost performance

Two GT1020 units or two GT1030 units or a combination of both units can be connected to a single PLC by daisy chaining the GOT units together.
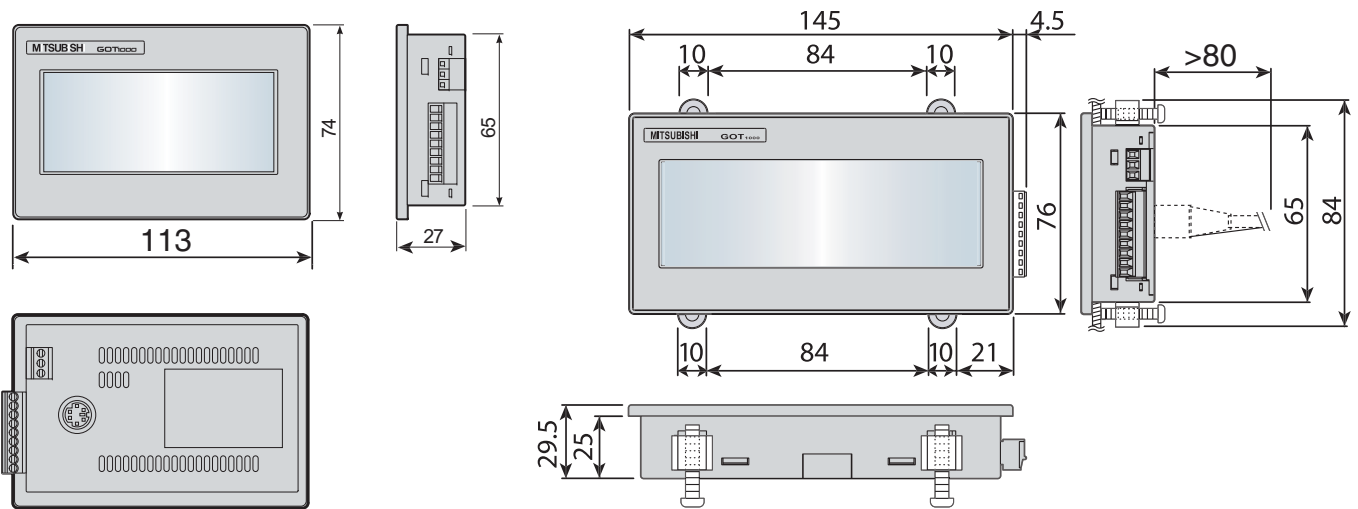
■ Communication driver

FX series PLC drivers are installed as standard but can be replaced/updated using GTWorks2 for other drivers allowing connection to devices such as Mitsubishi Q series or third party products.

FX/Q/QnA/A CPU

Power terminal
(depending upon the terminal type)

Specifications ///

Model	GT1020-LBD GT1020-LBL*	GT1020-LBDW GT1020-LBLW*	GT1020-LBD2	GT1020-LBDW2	GT1030-LBD	GT1030-LBD2	GT1030-LBDW	GT1030-LBD2W
Display type	STN monochrome liquid crystal							
Display diagonal	3.7" (160 x 64 pixel)				4.5" (288 x 96 pixel)			
Display size (W x H)	86.4 x 34.5 mm				109.4 x 36 mm			
Background illumination	tri-color LED green, orange, red	tri-color LED white, pink, red	tri-color LED green, orange, red	tri-color LED white, pink, red	tri-color LED green, orange, red	tri-color LED white, pink, red	tri-color LED green, orange, red	tri-color LED white, pink, red
Brightness	200 cd/m²	300 cd/m²	200 cd/m²	300 cd/m²	200 cd/m²	300 cd/m²	200 cd/m²	300 cd/m²
Input type	Touch screen (analog)				Touch screen (matrix)			
Number of function keys	50 keys (touch keys) per screen maximum				50 keys (touch keys) per screen maximum			
Key size	2 x 2 pixels / key minimum				16 x 16 pixels / key minimum			
Simultaneous keys	Simultaneous pressing of more than one key is impossible				Max. 2 touch keys can be pressed simultaneously			
User memory	Built-in Flash ROM (512 kB)				Built-in Flash ROM (1.5 MB)			
PLC interface	RS422		RS232		RS422		RS232	
Programming port	Serial, RS232 (6-pin mini)				Serial, RS232 (6-pin mini)			
Acoustic signal	Buzzer sound issued when touch key is pressed (sound length adjustable)							
Power supply	LBD/LBD(W)2: 24 V DC *LBL(W): 5 V DC via PLC		24 V DC	24 V DC	24 V DC			
Power consumption	LBD/LBD(W)2: 1.9 W max. (80 mA/24 V DC) *LBL(W): 1.1 W max. (220 mA/5 V DC)				2.2 W max. (90 mA/24 V DC)			
Protection	IP67				IP67			
Weight (kg)	0.2				0.3			
Programming software	GT Designer2 (version 2.59 or above)							

All dimensions in mm