

NEWS 1 FX3G series expansion

Complete Lineup of AC Powered FX3G PLCs!



Transistor Source Output Type

FX3G main units are now available!

FX3G
Main Units Lineup

	I/O 14 points In 8 / Out 6	I/O 24 points In 14 / Out 10	I/O 40 points In 24 / Out 16	I/O 60 points In 36 / Out 24
Transistor Output Sink	FX3G-14MT/ES	FX3G-24MT/ES	FX3G-40MT/ES	FX3G-60MT/ES
Relay Output	FX3G-14MR/ES	FX3G-24MR/ES	FX3G-40MR/ES	FX3G-60MR/ES
NEW Transistor Output Source	FX3G-14MT/ESS	FX3G-24MT/ESS	FX3G-40MT/ESS	FX3G-60MT/ESS

The FX3G is an introductory compact PLC and is the newest addition to the FX3 series, designed for simple yet performance-critical applications. Incorporating innovative FX3 series technology the customer is presented with a suite of benefits.

- 3rd generation compact PLC
- Highly flexible
- Dual system-bus architecture
- Control of up to 128 directly connected I/O points, or up to 256 with CC-Link remote I/O's.

Product Details

All in one CPU, power supply and I/O. Includes many upgraded features from the FX1N. Most notably the usage of the FX3 series ADP bus system and new expansion boards (BD).

Instruction Times

Basic Instructions: 0.21µs / instruction (Contact Instruction)

Memory

32,000 steps of built-in program memory.
EEPROM memory cassette with loader functionality is available.

Applicable Standards

All products support CE and UL/cUL

Large Device Memory

Auxiliary Relays.....	7,680 points	Data Registers.....	8,000 points
Timers.....	320 points	Extension registers.....	24,000 points
Counters.....	235 points	Extension file registers...	24,000 points

Reduce Setup Time and Cost, Combined Power and Communications Now Available in the GT1030!



The new GT1030 joins the GT1020 with the ability to feed off of the DC 5V service power supply of the RS-422 communication cable connected to the FX series PLC programming port.

- ☒ Power is supplied through the RS-422 programming port of the FX PLC using cables GT10-C10R4-8P (1m) or GT10-C30R4-8P (3m)
- ☒ Both backlight color options and white frame models are available
- ☒ Save time and spend less when installing or configuring equipment!

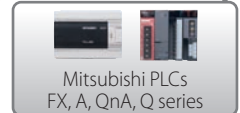
Unit	Frame Color	Backlight	PLC Communication
GT1030-LBL	Black	● ● ●	RS-422
GT1030-LWL	White	Green/Orange/Red	
GT1030-LBLW	Black	○ ● ●	RS-422
GT1030-LLW	White	White/Pink/Red	

NOTE: The DC 5V versions of the GT1030 and GT1020 do not support multi-drop or Modbus master functionality.

Visualize More Display Options, 16 GOT1000 Series HMIs Can Now Be Joined Together with the Serial Multi-drop Connection Unit!

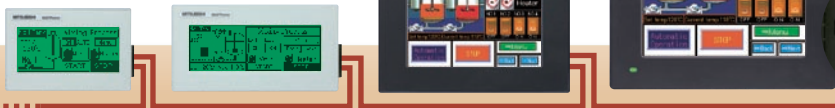
Ever wished to increase your connection distance or expand the number of GOTs in your system? Now this wish has become a reality.

Serial Multi-drop Connection Unit
GT01-RS4-M



- ☒ Equipped with USB, RS-232, RS-422, RS-485 communication ports enabling 4 channels of communication
- ☒ Maximum 16 GOT1000 series units
- ☒ Maximum 500m connection length

GOT1000 Series



GOT hardware versions with Multi-drop support is required

Simultaneous Launch of the GT10-9PT5S Connection Adapter



Enables easy wiring to the Multidrop unit for supported equipment:
GT104[], GT105[], GT115[]

Increase Your System Flexibility, Now You Can Connect up to 31 Modbus Devices to One GT10 Series HMI! ^{*1}



Modbus RTU master functionality is now included in GT10 series HMIs^{*1}. With this, up to 31 compatible Modbus devices such as inverters or temperature controllers can be connected to one GOT.

- **Maximum cable length: RS-232C=15m^{*2}
RS-485 = 1,200m^{*2}**
- **Maximum communication speed 115.2kbps, depending on the cable length and device**
- **Access to the complete range of devices, according to Modbus specification**

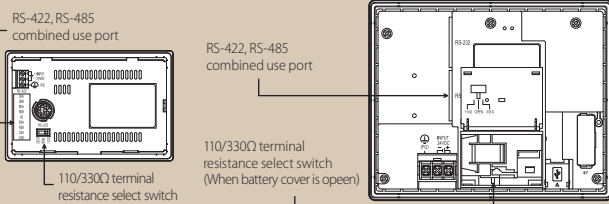
Note: GT Designer2 ver. 2.96A or later is required for connectivity.
*1. Refer to the compatibility table for supported products in tech news article -0039
*2. Depending on the connected device and communication speed



Notice

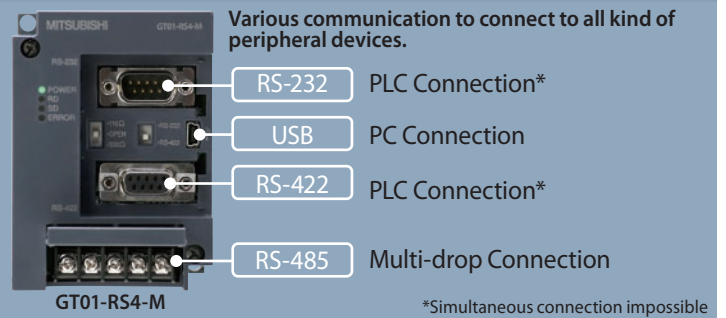
To correspond with Multidrop connectivity the GOT hardware has been updated.

Example for the updated hardware of the GT1020 and GT1051]

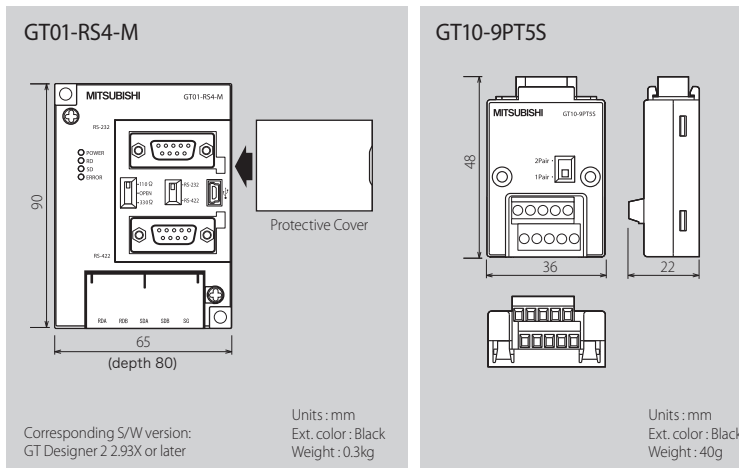


Please confirm with your local MELCO contact about the availability of updated H/W. Refer to the technical news article -0039 for more details.

Using the USB port to connect to **GT Designer 2** communication drivers can be updated!



External Dimensions

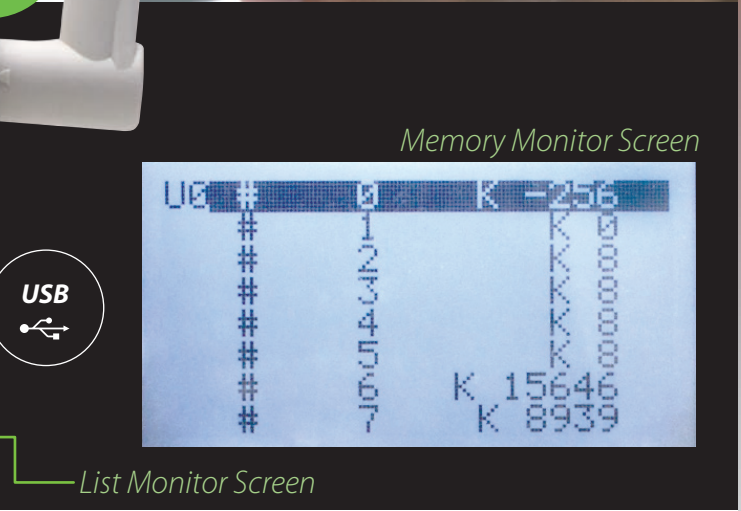
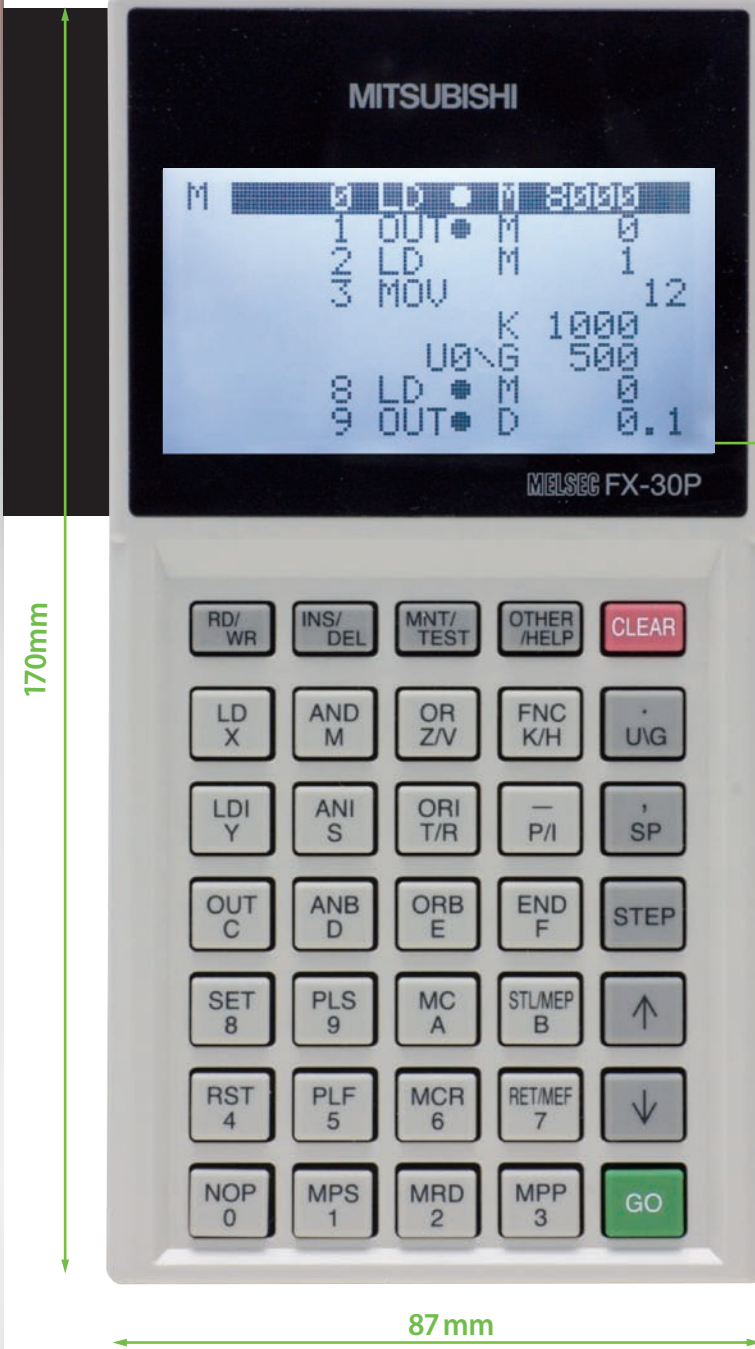


Specifications

Item	Specification	
PLC Connection Interface	Communication Type	RS-422, RS-232 standard conformance 1ch (Simultaneous use impossible)
	Baud rate [bps]	115,200 / 57,600 / 38,400 / 19,200 / 9,600 / 4,800
	Communication Length	RS-422 Connection max 30m, RS-232 Connection max 3m
	Compatible PLCs	MELSEC Series PLCs
GOT Connection Interface	Connector Type	RS-422 D-sub 9 pin (female), RS-232 D-sub 9 pin (male)
	Communication Type	Serial RS-485 standard conformance 1ch, internal terminal resistance
	Transmission Channel Type	Bidirectional half-duplex (1 pair wiring), Bidirectional full-duplex (2 pair wiring)
	Baud rate [bps]	115,200 / 57,600 / 38,400 / 19,200 / 9,600 / 4,800
	Communication Length	500m (maximum for entire system)
Connection Number	Maximum 16 units	
Compatible GOTs	Updated GT10 GOTs are connectable. For GT11/GT15/GT16, please contact your local MELCO contact.	
Connector Type	Terminal Block	
PC Connection Interface	USB 2.0, Mini-B connector	
Power Supply / Supply Voltage	DC24V (+10%, -15%)	
Fuse (internal, replacement unadvisable)	1A	
Current Consumption	3.36W or less (140mA / DC 24V)	
On-rush Current	14A or less (DC 24.6V, 1mA)	
General Specification	Follows the GOT1000 series	
Mounting Method	DIN rail or screw mounting	

The FX-30P is a small, industrial programming and maintenance tool for all FX Series PLCs.

Actual Size



This unit can perform program uploads/downloads and store up to 15 programs in its internal memory. Keywords can be registered, deleted or canceled in applicable PLCs.

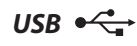
- ☑ Compatible with all FX series PLCs.
- ☑ Max. 21 characters × 8 lines.
- ☑ Store up to 15 programs
- ☑ Program monitoring function is available.
- ☑ The latest firmware can be download.



PLC Program Monitoring, Upload/download



firmware download



⚠ Safety Warning
To ensure proper use of the products listed in this catalog, please be sure to read the instruction manual prior to use.

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