

# **GOT-F900 FAMILY**

# **Expanding the possibilities** Pre. Auto. Man. ZRN.

#### **⚠** Safety Warning

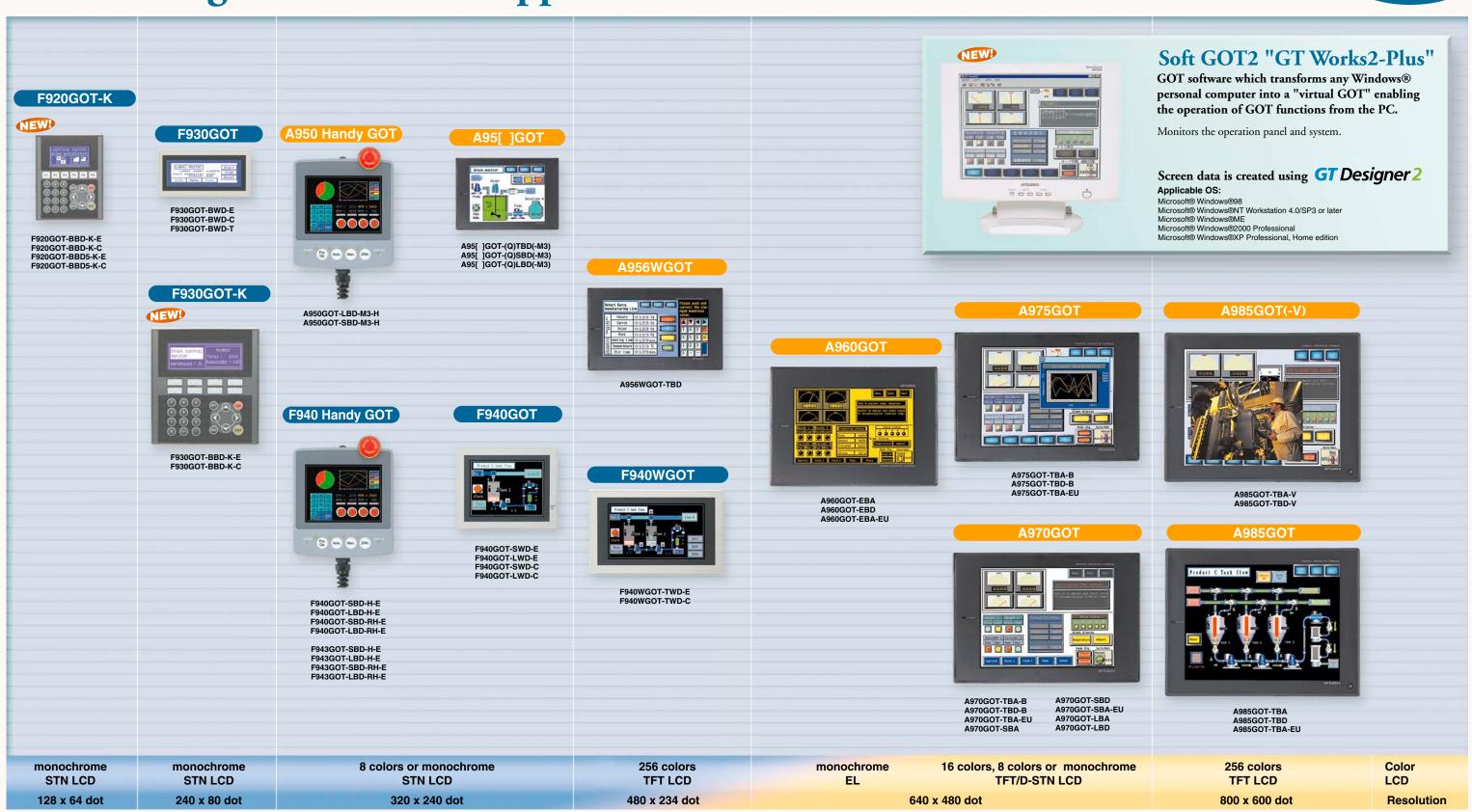
To ensure proper use of the products listed in this catalog, please be sure to read the instruction manual prior to use.

# MITSUBISHI ELECTRIC CORPORATION HEAD OFFICE: 1-8-12, OFFICE TOWER Z 14F HARUMI CHUO-KU 104-6212, JAPAN

P.16

# Select the right GOT for the application.





GOT-F900 Series

**GOT-A900 Series** 

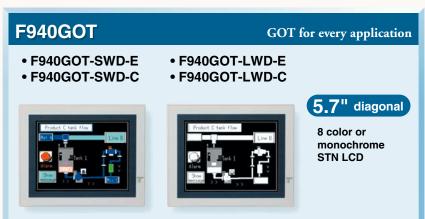
P.16

P.18

# The GOT-F900 Series is ideally suited for a vast range of applications.

#### **Panel Installation**

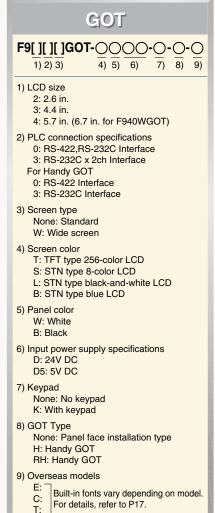












Hand-held		
F940 Handy	GOT in the	ne palm for your hand
• F940GOT-SBD-H-E • F943GOT-SBD-H-E	• F940GOT-LBD-H-E • F943GOT-LBD-H-E	
Pag. Auto Mar. 2204	Product C tank flow  Remarks and 1  Remarks and 1	5.7" diagonal 8 color or monochrome STN LCD



		Programming software	F940WGOT	F940GOT	F930GOT	F940 Han	ndy Series	F940 Handy Se	ries (RH model)	F930GOT with Keypad	F920GOT	with Keypad
	PLC ←→ GOT connection	GT Designer 2	F940WGOT-TWD-E F940WGOT-TWD-C	F940GOT-SWD-E F940GOT-LWD-E	F930GOT-BWD-E F930GOT-BWD-C F930GOT-BWD-T	F940GOT-SBD-H-E F940GOT-LBD-H-E	F943GOT-SBD-H-E F943GOT-LBD-H-E	F940GOT-SBD-RH-E F940GOT-LBD-RH-E	F943GOT-SBD-RH-E F943GOT-LBD-RH-E	F930GOT-BBD-K-E F930GOT-BBD-K-C	F920GOT-BBD5-K-E F920GOT-BBD5-K-C	F920GOT-BBD-K-E F920GOT-BBD-K-C
	MELSEC-F FX Series	/	✓	✓	✓	✓	<b>√</b> *1	<b>✓</b>	<b>√</b> *1	/	✓	✓
	MELSEC-A, QnA Series Motion controller	<b>✓</b>	/	/	✓	✓	-	✓	-	1	-	-
MITSUBISHI	MELSEC-Q Series	/	✓	/	/	✓	✓ <b>/</b>	_	_	/	✓	/
ELECTRIC	A computer link unit QnA, Q serial communication unit	✓	/	✓	✓	✓	✓	✓	1	✓	-	✓
	FX Positioning (10/20GM)	/	✓	✓	/	✓	/	1	✓	/	-	=
	Inverter (FREQROL-A500A, E500, S500)	✓	✓	<b>✓</b>	✓	✓	_	/	-	✓	-	_
	General (Microcomputer)	<b>√</b>	✓	<b>✓</b>	/	✓	_	/	_	✓	-	/
	Omron (SYSMAC C Series)	/	<b>✓</b>	✓	<b>✓</b>	✓	/	/	✓	/	-	✓
	Fuji Electric (FLEX-PC N Series)	1	<b>√</b>	✓	/	✓	/	/	✓	/	-	_
OTHER	Matsushita Electric Works (FP, FP∑ Series)	<b>√</b>	✓	/	✓	✓	✓	/	/	/	-	✓
PLCs	Yasukawa Electric (machine controller)	/	✓	<b>✓</b>	✓	✓	<b>✓</b>	/	/	/	-	-
	Allen-Bradley (SLC500, MicroLogix Series)	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>\</b>	_	/	-	_	/	-	/
	SIEMENS AG (SISMATIC S7-200, S7-300 Series)	/	<b>√</b>	/	<b>/</b>	=	<b>/</b>	-	-	<b>/</b>	-	✓ Except S7-200
	Bar code reader, Printer	/	<b>√</b>	/	<b>✓</b>	✓ Enabled whe	en RS-232C port is available	/	/	/	-	-
	Connection of two or more GOT units	/	<b>√</b>	✓ Enabled whe	n RS-232C port is available	✓ One unit can	be connected	<b>√</b>	<b>✓</b>	<b>✓</b>	-	-

<sup>\*1</sup> The RS-232C adapter or board is necessary

#### P.1 GOT GOT-F900 lineup lineup

Functions Hardware

Programming software

P.16

P.18 Connectors/ Cables

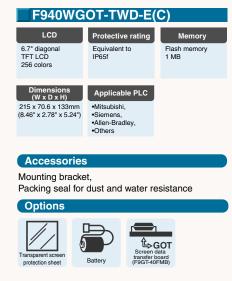
P.22 Options Dimensions

P.26 Configuration

# Wide Screen display, 6.7" TFT LCD

# F940WGOT



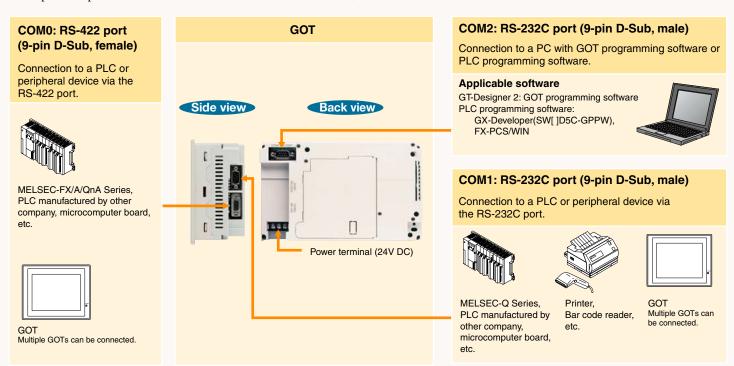


F940WGOT-TWD-E shown.

#### **Features**

#### ■Three built-in communication channels

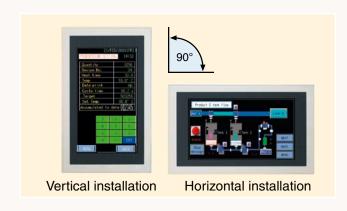
Three ports are provided as standard for communication with a PC (COM2: RS-232C) and a PLC (COM1: RS-232C and COM0: RS-422).



A single PLC can be connected to either COM0 or COM1

#### ■ Flexible layout

The F940GOT can be installed horizontally or vertically. Screens can be oriented accordingly with programming software.

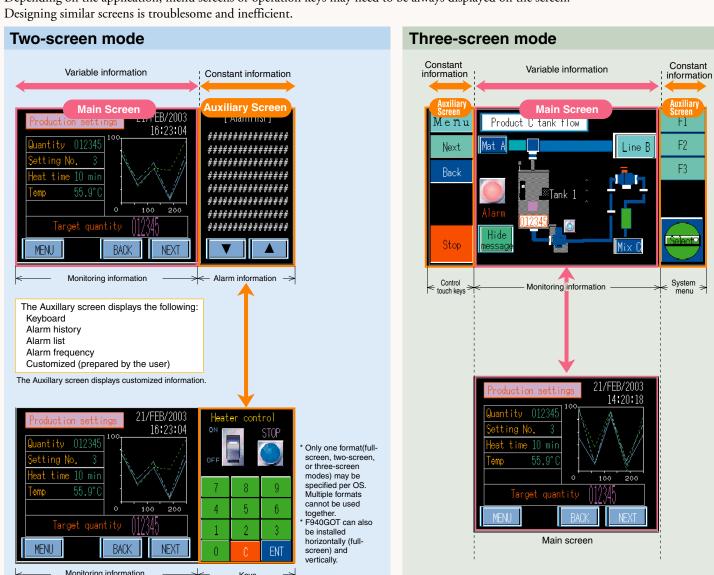


#### **■** Multiple sections

#### Decrease operation time with screen divisions configuration

The screen can be divided into two or three displays.

Depending on the application, menu screens or operation keys may need to be always displayed on the screen.



#### P.1 GOT P.2 GOT-F900 lineup lineup

Features

Functions Hardware

P.16

P.18 Programming

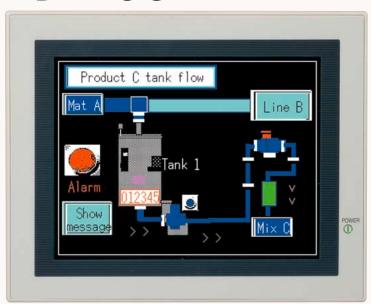
P.22 Connectors/ Cables

P.24

P.26 Options Dimensions Configuration

## **GOT** for every application GOT with 5.7" LCD

# F940GOT



F940GOT-SWD-E shown.

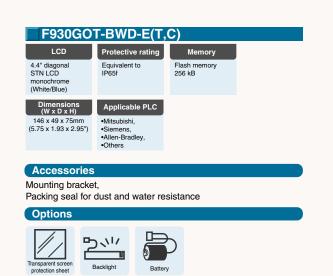
# F940GOT-SWD-E(C) 162 x 57 x 130mm (6.38 x 2.24 x 5.12") F940GOT-LWD-E(C) Dimensions (W x D x H) Mounting bracket, Packing seal for dust and water resistance

## Compact performance **GOT with 4.4" STN LCD**

# **F930GOT**



F930GOT-BWD-E shown.



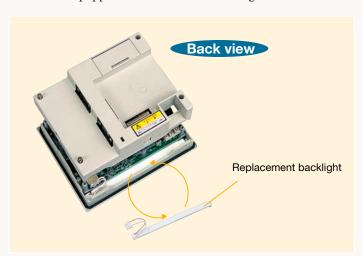
#### **Features**

#### ■ Simple backlight replacement

The backlight battery life is rated at 50,000 hours (40,000 hours with F940GOT).

A replacement backlight is offered as an option.

The unit is equipped with an automatic backlight OFF function.



#### Resistant to environmental conditions (IP65f)

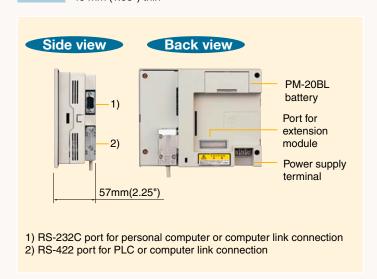
The display surface contains dustproof, waterproof, and oilproof properties consistent with IP65f \*1.



#### ■ Thin operation panel surface

Slim body and structure designed so that cable connectors do not protrude.

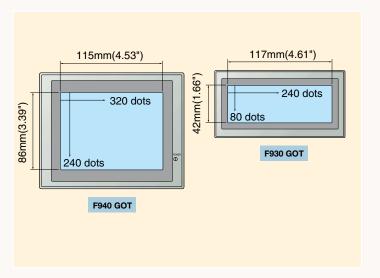
**F940 GOT** 57 mm (2.25") thin **F930 GOT** 49 mm (1.93") thin



#### ■ High resolution LCD screen

High clarity screen provides for effective operation.

**F940 GOT** 320 x 240 dots **F930 GOT** 240 x 80 dots



#### P.1 GOT GOT-F900 lineup

P.4 Features I I

Functions Hardware Programming software

P.18 Connectors/ Cables

P.22 Options

P.24 Dimensions

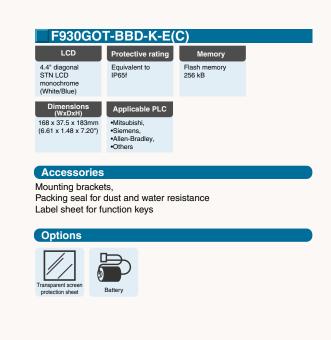
#### P.26 S Configuration

# GOT-F900 with Keypad, feel the difference

4.4" LCD saves on operation time with convenient access keys.

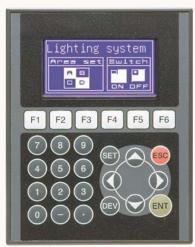
# F930G0T-K



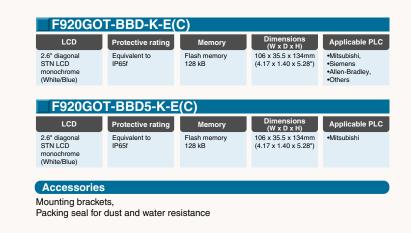


# Compact model equipped with useful functions 2.6" STN LCD





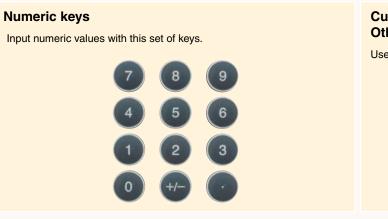


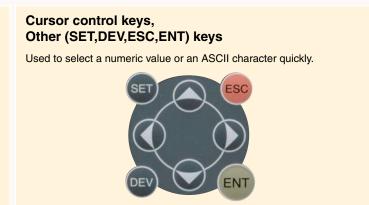


#### **Features**

#### ■ External Keypads and Function Keys

Keypads (Numeric, Cursor, and Function Keys) allow quick access to frequently-viewed screens and make data entry easier while reserving the display area for screen data.





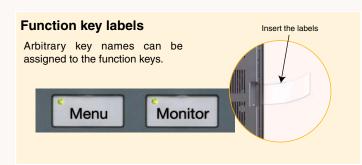
#### ■ Arbitrary functions can be assigned to a function key

- •Customizable Function Keys
- •Special functions can be assigned to either 6 or 8 function keys.

#### F930G0T-K

#### ■ Function key labels

Function key labels can be designed and replaced quickly. Clarify user-defined key names and operational functions with these labels.



■ Compatible with existing graphic data for the F930GOT.

Existing screen data for the F930GOT can be used with this unit.

#### F920GOT-K

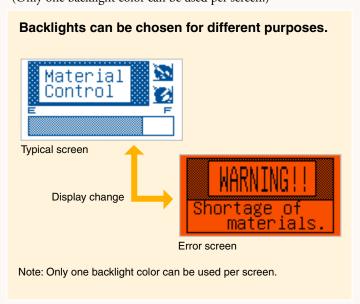
#### ■ Bit Map Display

Display simple bitmaps on this highly versatile LCD display. F920GOT-BBD(5)-K has the smallest LCD screen in its class with bitmap-displaying capabilities.

#### ■ Excellent Viewing Characteristics

Outstanding visibility has been achieved by using high-intensity white and red LED backlights.

(Only one backlight color can be used per screen.)



#### **GOT** GOT-F900 lineup lineup

Functions

Programming

P.22 P.18 Connectors/ **Cables** 

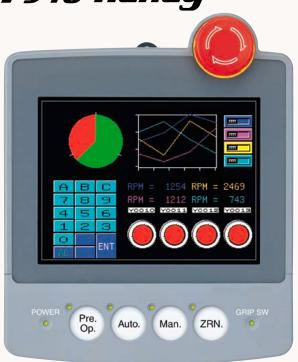
P.24 **Options** 

P.26 Dimensions Configuration

# GOT in the palm of your hand

5.7" STN LCD, 0.79 kg (1.74 lbs) compact body

# F940 Handy





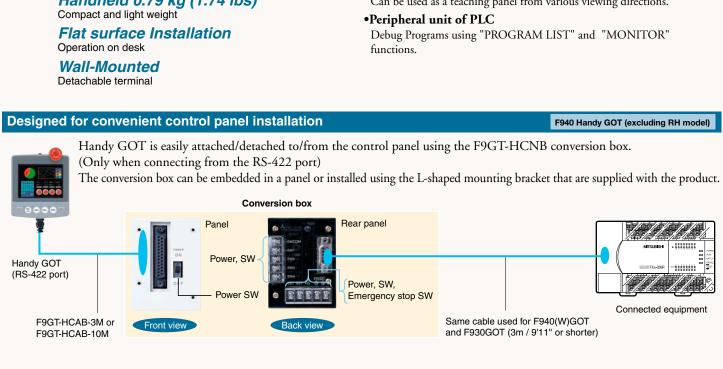
Handheld 0.79 kg (1.74 lbs)

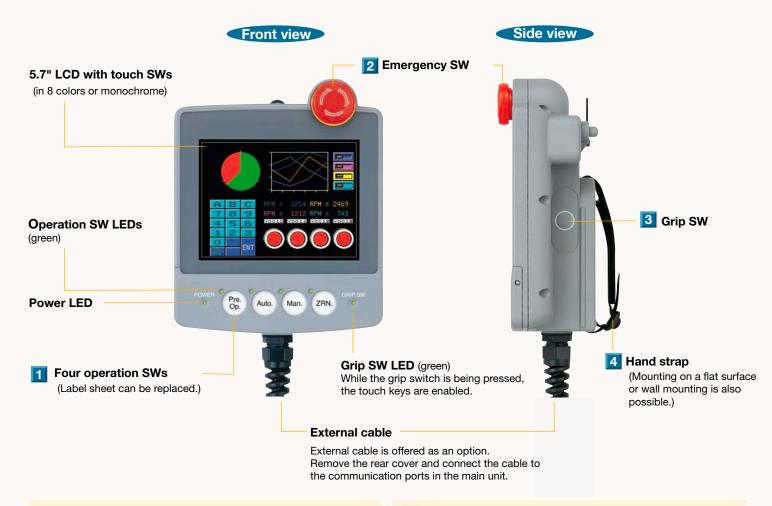
# F940GOT-SBD-H-E/F943GOT-SBD-H-E F940GOT-LBD-H-E/F943GOT-LBD-H-E Dimensions (W x D x H) 5.7" diagona STN LCD 156 x 78.5 x 191 mm (6.14 x 3.14 x 7.52") Label sheet for operation switches

#### **Features**

#### Optimal for many applications

- •In limited space applications Can be attached/detached when operating.
- •For start up, adjustment and change over of machine Can be used as a teaching panel from various viewing directions.







2 Emergency stop SW

A "N/C contact type" switch is provided for safety reasons.

When the Handy GOT is removed from a machine, the switches turn from ON to OFF. This fact should be taken into consideration when designing the system.



3 Grip SW 4 Hand strap While the grip switch is being pressed, manipulation of the touch keys on the screen is enabled.

The lightweight body (0.79

kg/1.74 lbs) and the hand strap on the rear of the unit provide comfortable, one-hand operation for a long period of time.



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#### P.1 **P.2 GOT** GOT-F900 lineup lineup

Functions Hardware

Programming software

P.18 **Cables** 

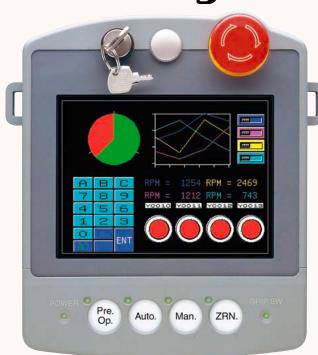
P.22

P.24 Connectors/ Options Dimensions

# High operational reliability

5.7" STN LCD screen

# F940 Handy RH

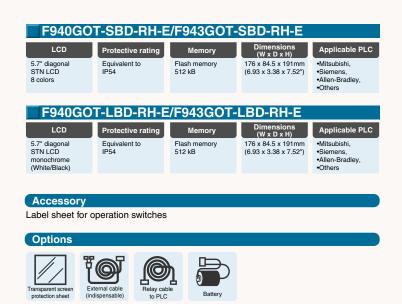




Handheld 0.87 kg (1.91 lbs) Compact and light weight

Flat surface Installation Flexible handling

Safety strap the unit A strap to help grip



#### **Features**

#### **■** User-friendly

#### •Kevlock SW

If an authorized operator is to operate certain functions (such as manual/automatic switching, mode selection, or changing over), the keylock feature is extremely convenient.

A key can be inserted/removed when it is in the left position. Password protection function to limit the operation of a machine to certain operators is also available on the GOT screen.

#### •Loops for attaching a strap

A strap for shoulder/neck carry (prepared by the user) can be attached to the loops.

#### •In limited space applications

Can be attached/detached when operating.

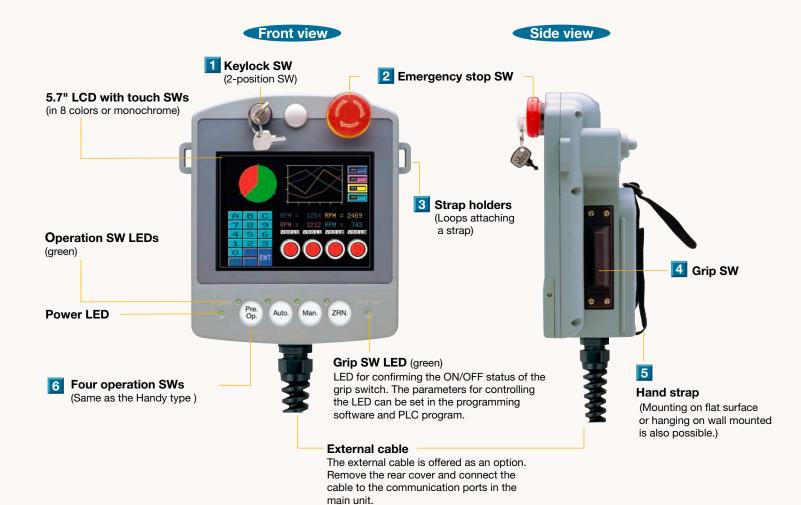
#### •For start up, adjustment and change over of machine

Can be used as a teaching panel from various viewing directions.

#### •Peripheral unit of PLC

Debug Programs using "PROGRAM LIST" and "MONITOR" functions.





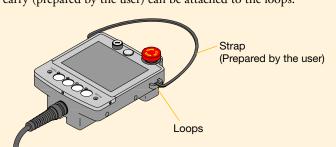
#### Meylock SW

A two position switch. A key can be inserted or removed to lock the switch position.

The switch can be used to change the mode between automatic and manual.

#### 3 Strap holders

A strap to help prevent accidental drops or for shoulder/hand carry (prepared by the user) can be attached to the loops.



#### Emergency stop SW

Provided as an "N/C contact type" switch for safety reasons.

When the Handy RH GOT is removed from

a machine, the switches turn OFF from ON. This is the status in which the emergency stop

switch is pressed. This fact should be taken into consideration at the designing phase.

Two N/C contacts are provided for the emergency stop switch. If these contacts are connected in series, the operation stop command is transmitted securely even if one contact turns ON.

#### 4 Grip SW

The grip switch is a twin contact type which performs a 3-positioned operation (OFF/ON/OFF). When trouble occurs, an operator may either press or release the button to stop the operation of a machine immediately.



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Features

Programming Connectors/ Options Dimensions software

P.18 Cables P.22 P.24

P.26 Configuration

#### F940WGOT F940GOT F930GOT F920GOT-K Handy GOT **Handy RH-GOT** F94[]GOT-SBD-H-E F94[]GOT-LBD-H-E F94[ ]GOT-SBD-RH-E F94[ ]GOT-LBD-RH-E Product model name ([ ] 0 or 3) F940WGOT-TWD-E F940GOT-SWD-E F940GOT-LWD-E F930GOT-BWD-E F930GOT-BBD-K-E F920GOT-BBD-K-E F920GOT-BBD5-K-E General specifications 5V DC ±5% (Supplied from PLC) 24V DC +10, -15% (service power supply of PLC or separately prepared DC power supply) 24V DC +10, -15% (service power supply of PLC or separately prepared DC power supply) Supply voltage 24V DC current consumption 650mA/24V DC \*1 410mA/24V DC 390mA/24V DC 200mA/24V DC 220mA/24V DC 80mA/24V DC 220mA/5V DC 300mA/24V DC (Backlight OFF) (200mA/24V DC) (400mA/24V DC) (70mA/24V DC) (180mA/5V DC) Built-in (non-replaceable) Fuse Built-in (non-replaceable) Operation continues after power failure for 5ms or less Allowable momentary power failure time Operation continues after power failure for 5ms or less PM-20BL (life: Approx. 5 years) Built-in lithium battery FX<sub>2NC</sub>-32BL (life: Approx. 3 years) FX<sub>2NC</sub>-32BL (life: Approx. 3 years) Ambient temperature 0-50°C \*2 0-50°C\*3 0-50°C 0-50°C 35 to 85%RH (no condensation) Ambient humidity 35 to 85%RH (no condensation) Free from corrosive gas and excessive dusts Working atmosphere Free from corrosive gas and excessive dusts Vibration resistance Frequency Acceleration Amplitude 0.075mm In conformance to JIS B3502 With intermittent vibration 10 times in each of X, Y and Z directions 57-150Hz (for 80 min) and IFC 61131-2 10-57Hz 0.035mm With continuous vibration 4.9m/s<sup>2</sup> Impact resistance In conformance to JIS B3502 and IEC 61131-2 (147 m/s², 3 times in each of X, Y and Z directions) In conformance to JIS B3502 and IEC 61131-2 (147 m/s<sup>2</sup>, 3 times in each of X, Y and Z directions) By noise simulator of 1,000 Vp-p in noise voltage, 1 $\mu s$ in noise width and 30 to 100 Hz in frequency Noise resistance By noise simulator of 1,000 Vp-p in noise voltage, 1 μs in noise width and 30 to 100 Hz in frequency Withstand voltage 500V AC for 1 min (between all power terminals and ground terminal) 500V AC for 1 min \*6 500V AC for 1 min (between all power terminals and ground terminal) 5 MΩ or more by 500V DC megger (between all power terminals and ground terminal) Insulation resistance $5 \text{M}\Omega$ or more by 500V DC megger \*6 $5 \text{M}\Omega$ or more by 500V DC megger (between all power terminals and ground terminal) Class D grounding (If grounding is impossible, it can be omitted.) Grounding Class D grounding (If grounding is impossible, it can be omitted.) Protective Rating Equivalent to IP65f \*7\*8 Equivalent to IP65f \*7\*8 Screen display specifications Display Device TFT color LCD STN monochrome LCD STN monochrome LCD Number of Colors 256 colors 2 colors (White and Black) 2 colors (White and Blue) 8 colors 2 colors (White and Black) 2 colors (White and Black) 2 colors (White and Blue) 8 colors 480 x 234 dot 60 characters x 14 lines 320 x 240 dot 40 characters x 15 lines 128 x 64 dot 16 characters x 4 lines 240 x 80 dot 30 characters x 5 lines 320 x 240 dot 40 characters x 15 lines Resolution 320 x 240 dot 40 characters x 15 lines Dot Pitch 0.324mm (0.013") Horizontal x 0.36mm (0.014") Horizontal x 0.47mm(0.019") Horizontal x 0.47mm(0.019") Vertical 0.36mm(0.014") Horizontal x 0.36mm(0.014") Vertical 0.375 mm (0.015") Vertical 0.36 mm (0.014") Vertical Effective Display Size 7"(6.7") diagonal 6"(5.7") diagonal 4" (4.4) diagonal 3"(2.6") diagonal 6" (5.7") diagonal 155 mm (6.12") x 87.8 mm (3.46") 115 mm (4.53") x 86 mm (3.39") 117 mm (4.61") x 42 mm (1.65") 60 mm (2.36") x 30 mm (1.18") 115 mm (4.53") x 86 mm (3.39") 115 mm (4.53") x 86 mm (3.39") Range of view angle Left and right: 30°, Left and right: 40°, Left and right: 30°, Left and right: 50°. Left and right: 50°, Left and right: 30°, Upper: 45°, lower: 60° Upper and Lower: 30° Upper: 20°, lower: 30 Upper and lower: 40° Upper: 45°, lower: 60° Upper and lower: 30° Max. Number of Screens 500 User screens No. 1001-1030 System screens allocated 30 System screens No. 1001-1030 System screens allocated No. 1001-1030 System screens allocated No. 1001-1030 System screens allocated Language displayed on the English.Western Europe \*4. English.Western Europe \*4. English.Western Europe \*4. English, Western Europe \*4, English, Western Europe \*4, English, Western Europe \*4, orean, Chinese (Simplified, Traditional), Korean, Japanese(Shift JIS level1) Korean, Japanese(Shift JIS level1,2) Korean, Chinese (Simplified, Traditional). Korean, Chinese(Simplified, Traditional). Korean, Chinese (Simplified, Traditional). User screen Japanese (Shift JIS level1.2) Japanese (Shift JIS level1) Japanese (Shift JIS level1) Japanese (Shift JIS level1) Approx. 50,000 hours or more (working temperature: 25°C) Guarantee period is 1 year Approx. 50,000 hours or more (working temperature: 25°C) Guarantee period is 1 year Display element 50,000 hours or more Backlight \*5 40,000 hours or more 40,000 hours or more Cold cathode fluorescent tube backlight (working temperature: 25°C), Guarantee period is 1 year LED(Red/White) Cold cathode fluorescent tube backlight (working temperature:25°C), Guarantee period is 1 year Flash memory 1 MB (built-in) Flash memory 128kB (built-in) Flash memory 512kB (built-in) Flash memory 512 KB (built-in) Screen data Flash memory 512kB (built-in) EEPROM (Keeps Recipe, Alarm frequency, Alarm history) Memory Other data RAM (Keeps Recipe, Alarm frequency, Alarm history and Sampling data) RAM (Keeps Recipe, Alarm frequency, Alarm history and Sampling data) ✓ (F9GT-40FMB only) ROM transfe Touch keys Max. 50 touch keys / screen, 20 x 12 matrix 20 x12 matrix Communications RS-232C 9-pin D-Sub, male port, 2 channels, 9-pin D-Sub, male port, #4-40UNC Inch screw thread 9-pin D-Sub, male connector (Screen data transfer Dedicated to personal computer port) #4-40UNC Inch screw thread interface RS-422 9-pin D-Sub, female port, M2.6 Metric screw thread Dedicated port F940GOT-\*BD-(R)H:RS-422 F943GOT-\*BD-(R)H:RS-232C External I/O For operation switch 4 switches (4 contacts/ common) 4 switches (4 contacts/ common) External cable (with 25-pin D-Sub connector or untied) External cable (with 37-pin D-Sub connector) For emergency stop switch 1 switch (a contact) 1 switch (a contact) External cable (with 25-pin D-Sub connector or untied) External cable (with 37-pin D-Sub connector) Applicable PLC \*9 \*10 •FXCPU: FX/FX1/FX2/FX2c/FX0/FX0S/FX1S/FX0N/FX1N/FX2N/FX2NC Other manufactures: •AnUCPU: A2UCPU, A2UCPU-S1, A3UCPU and A4UCPU units QCPU(Q mode): Q00JCPU, Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU and Q25HCPU units QCPU(A mode): Q02CPU-A, Q02HCPU-A and Q06HCPU-A units •AnACPU: A2ACPU, A2ACPU-S1 and A3ACPU units •AnNCPU: A1NCPU, A2NCPU, A2NCPU-S1 and A3NCPU units Series main units Omron: C200H, C200HX, CQM1,CPM1, CPM2, CS1 and CJ1 •SIEMENS: SIMATIC S7-200, S7-300 and S7-400 •FX Series GM positioning unit: FX-10GM, FX-20GM, E-20GM, Fuii Electric: FLEX-PC N Series(NB-RS1-AC, NB-RS1-DC, NJ-RS4. FX2N-10GM and FX2N-20GM •ACPU(large type): AnUCPU, AnACPU and AnNCPU units NJ-RS1 and NJ-RS2) QCPU: QCPU (Q mode) and QCPU (A mode) units QnACPU(large type): Q2ACPU, Q2ACPU-S1, Q3ACPU, Q4ACPU and Q4ARCPU units •Motion controller CPU: A171SCPU-S3, A171SHCPU, A172SHCPU •A2US(H)CPU: A2USCPU, A2USCPU-S1 and A2USHCPU-S1 units Yasukawa Electric: Machine controllers CP-9200SH, MP-920 and and A273UHCPU •FREQROL Series: A500/E500/S500 Series inverter Ans(H)CPU: A1sCPU A1sHCPU and A2sCPU units MP-930 •Matsushita Electric Works: FP0, FP∑, FP2SH and FP2SH+ •QnACPU(small type): Q2ASCPU, Q2ASCPU-S1, Q2ASHCPU and Q2ASHCPU-S1 units •A1SJ(H)CPU: A1SJCPU-S3 and A1SJHCPU units •QnACPU: QnACPU (large type) and QnACPU (small type) units •ACPU(small type): A2US(H)CPU, AnS(H)CPU and A1SJ(H)CPU units •ACPU: ACPU (large type), ACPU (small type) and A1FXCPU units •Allen Bradley: SLC 5/03 and SLC 5/04 Switches 4 switches(4 contacts/common), a contact, 10 mV/24V DC, Life: 1,000,000 times Operation switch Function key 8 switches 6 switches Grip switch 1 switch 1 switch (assigned as key in display unit), 2a contact, 1A/24V DC(resistance load) a contact, 10 mV/24V DC, Life: 1,000,000 times 3-positioned OFF/ON/OFF (individual wiring) 1 switch, b contact, 1A/24V DC(resistance load), Emergency stop switch

Keylock switch

Numeric keypad

Cursor key

0-9, (-), (.)

▼,∢,⊳,▲

ENT,ESC,SET,DEV,

1 switch,

2b contact, 1A/24V DC(resistance load), Life: 100,000 times or more

1 switch (with 2 keys), c contact, 1A/24V DC (resistance load) Life: 100,000 times or more

Life: 100,000 times or more

<sup>\*1</sup> When the power is turned ON a maximum current of 750 mA/24V DC is consumed.

<sup>\*2 0</sup> to 50°C when the screen is installed laterally. 0 to 40°C when the screen is installed vertically or horizontally.

<sup>\*3 0</sup> to 40°C when the extension interface is used.

<sup>\*4</sup> Italian, Dutch, Swedish, Spanish, German, Portuguese, French

<sup>\*5</sup> The life of the backlight above indicates the value at 25°C.

<sup>\*6</sup> Between all power terminals of the PLC and ground terminal

<sup>\*7</sup> This test result does not provide any guarantees that the product stands against use in all types of environment

<sup>\*8</sup> As regarding the front panel

<sup>\*9</sup> F920GOT-BBD5-K-E(C) can only connect to the FX, A, QnA Series PLCs (Refer to page 3).

<sup>\*10</sup> Refer to Hardware Manual (connection) for specific connection details

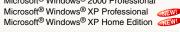


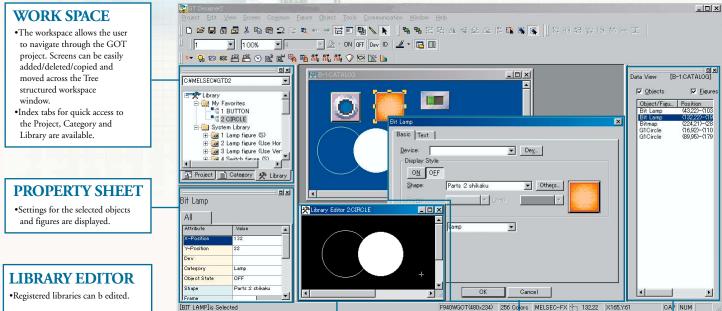
#### **Features**

- •Screens can be created easily.
- •Individual screens can be transferred.
- •A full range of excellent features.



#### OS: Microsoft® Windows® 98 Microsoft® Windows® Millennium Edition Microsoft® Windows® NT Workstation4.0+Service pack3 or later Microsoft® Windows® 2000 Professional





#### **■** Function

#### Navigating



Project Work Space

Quick access to user screens

#### **Library parts**

**DIALOG BOX** 

Customizing user-friendly.



Library Work Space

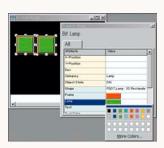
Effortlessly construct user screens using the user-friendly parts lists

#### Registering parts

•When an Object or Figure is double clicked,

a dialog box for easy editing is displayed.

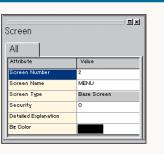
**DATA VIEW** 



Library Editor

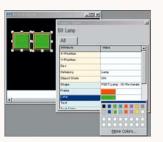
Create and edit library parts

#### **Configuring Properties**



Project Work Space

Dialog box settings are not needed with the use of the Property Sheet



Library Work Space

One-step setting for multiple parts



Property box

Graphical check, less mistakes

System requirements

Cyclem requirements						
	GT Designer 2					
PC	Pentium® 200 MHz or higher					
Required memory	64 MB or more					
Hard disk capacity	For installing: 250 MB or more, For operating: 50 MB or more					
Disk drive	CD-ROM drive required					
Display colors	256 colors					
Display	Resolution: 800 x 600 dots or better					
Other	Internet Explorer 5.0 or later must be installed.					

		Language of	displayed		In-built fonts (user screen) *3											
Name	GOT model name *1	on system	screen *2		Japa	inese		Chir	inese			Western Europe				
Name	GOT Moder hame	Default	Optional	English	Shift JIS level-1	Shift JIS level-2	Korean	Simplified	Traditional	Italian	Dutch	Swedish	Spanish	German	Portuguese	Frenc
	F940WGOT-TWD	Japanese	English	1	1	1	1	/	1	1	/	1	/	/	/	1
	F940WGOT-TWD-E	English	Japanese	1	1	1	1	1	1	1	1	/	1	1	/	1
F940WGOT	F940WGOT-TWD-C	Chinese (Simplified)	English	1	1	1	1	1	1	1	1	1	1	1	1	1
	F94[ ]GOT-SWD	lananaaa	Facilials	,	,		,	,	,	,	1	/	,	1	,	1
	F94[ ]GOT-LWD	Japanese	English	/	/	_	/	/	/	/	_ ′	'	/	'	/	,
F940GOT	F940GOT-SWD-E	English	Japanese	/	/		1	1	/	1	/	1	/	/	/	/
F940GO1	F940GOT-LWD-E	English	Japanese	•	,		_	•	_	_	•		<b>'</b>	_ ′	•	•
	F940GOT-SWD-C	Chinese	English	/	/		/	1	/	/	/	/	/	/	/	/
	F940GOT-LWD-C	(Simplified)	English	•	•		•	•	'	•	•		•			ı
	F930GOT-BBD-K	Japanese	English	1	1	_	_	_	_	1	1	1	1	1	/	1
F930GOT-K	F930GOT-BBD-K-E	English	Japanese	1	1	_	<b>√</b> *4	_	_	1	1	/	1	1	/	1
	F930GOT-BBD-K-C	Chinese (Simplified)	English	1	_	_	_	1	_	_	_	_	_	_	_	_
	F93[ ]GOT-BWD	Japanese	English	1	1	/	_		_	1	1	/	1	1	/	1
	F930GOT-BWD-E	English	Japanese	1	1	_	<b>√</b> *4	_	_	1	1	/	1	1	/	1
F930GOT	F930GOT-BWD-C	Chinese (Simplified)	English	1	_	_	_	1	_	_	_	-	_	_	_	_
	F930GOT-BWD-T	English	_	1	_	_	_		1	_	-	I —	_	_		_
	F920GOT-BBD5-K	Japanese	English	1	1	1	_	_	_	1	1	1	1	1	1	1
FOOODTI	F920GOT-BBD5-K-E	English	Japanese	1	1	1	<b>√</b> *4	_	_	1	1	1	1	1	1	1
F920GOT-K	F920GOT-BBD5-K-C	Chinese (Simplified)	English	1	_	_	_	1	1	_	_	-	_	_	_	_
	F94[ ]GOT-SBD-H			,						,		,	,	,	,	
Handy GOT	F94[ ]GOT-LBD-H	Japanese	English	1	1	_	1	/	1	/	1	1	<b>/</b>	/	1	1
rianuy GOT	F94[]GOT-SBD-H-E	English	Japanese	/	,		/	1	/	/	/	/	/	1	/	/
	F94[ ]GOT-LBD-H-E	Eligiisii	Japanese	_	/	-	'	'	'	'	'	'	'	'		
	F94[ ]GOT-SBD-RH	Japanese	English	/	,		/	1	/	1	/	1	/	/	/	/
Handy GOT	F94[ ]GOT-LBD-RH	Japanese	Ligion	,	/		,	,	,		"	•			•	
(RH model)	F94[]GOT-SBD-RH-E	English	Japanese	/	1		/	1	/	1	1	1	/	/	/	/
	F94[ ]GOT-LBD-RH-E	Liigiisii	Japanese	•	/	_	<b>'</b>	,	,						,	

\*1.[] in the GOT model name indicates 0 or 3. (The in-built interface varies as shown below)

Name	0	3
F940GOT, F930GOT	RS-422(1), RS-232C(1)	RS-232C(2)
Handy GOT, Handy GOT RH model	BS-422(1)	BS-232C(1)

\*2.A change on a system screen can be made in the programming software or GOT main unit.

\*3.The font which can be displayed on a user screen Depending on the OS, the font may not be displayed even if it is built-in to the GOT-F900.
\*4.Only Hangul is available. (Excluding Korean KS standard kanji)

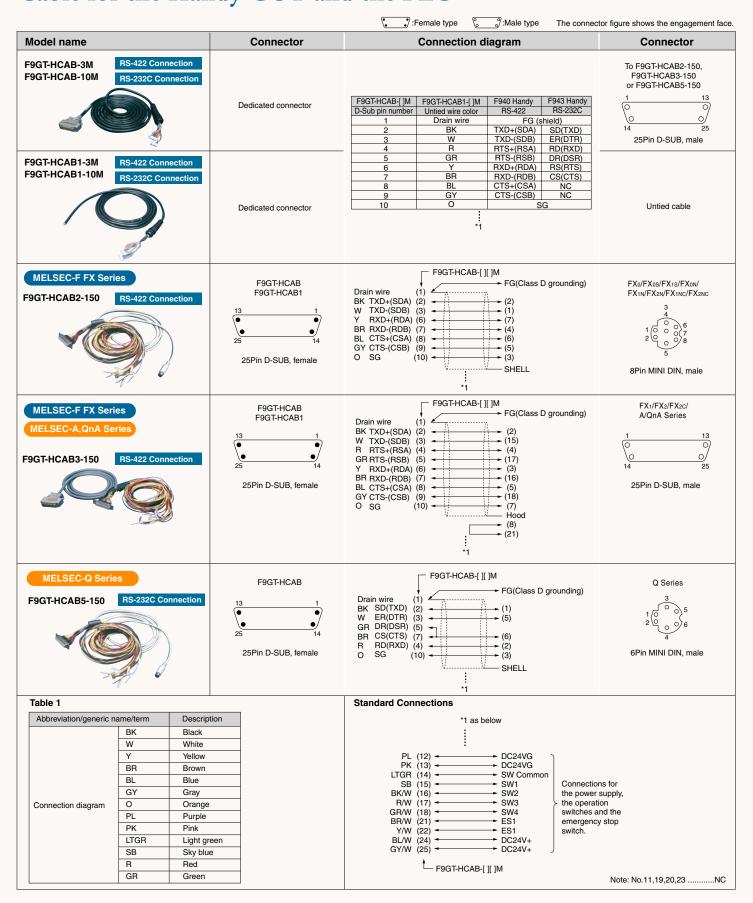
P.1 P.2 P.4 GOT-F900 Features lineup

Functions Programming Hardware software

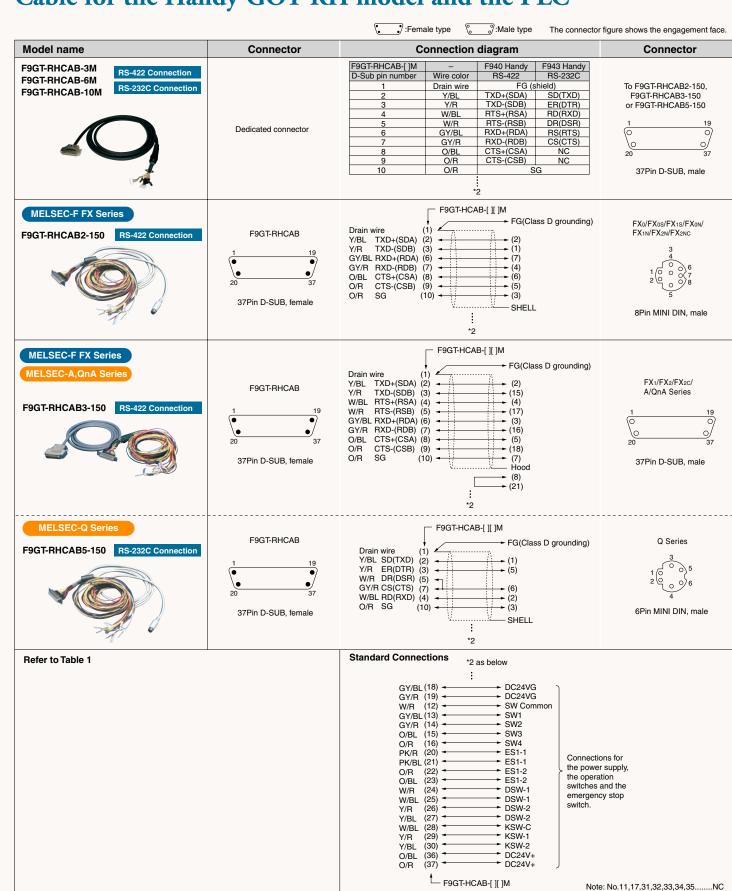
P.18 Connectors/ Cables

Options Dimensions

# Cable for the Handy GOT and the PLC



#### Cable for the Handy GOT RH model and the PLC



21

GOT-F900 Series and Pl			r figure shows the engagement fa
Model name	Application	Connection diagram	Application
MELSEC-F FX Series  FX-50DU-CAB0 FX-50DU-CAB0-10M FX-50DU-CAB0-10M FX-50DU-CAB0-20M FX-50DU-CAB0-30M FX-50DU-CAB0L *1	GOT-F900  1 5 0 9 9 9Pin D-SUB, male	(1) (2) (2) (7) (4) - (6) (5) - (3) (6) - (1) (7) - (4) (9) - (5)	FXo/FXos/FX1s/FXon/ FX1n/FX2n/FX1nc/FX2nc 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0
MELSEC-A,FX Series  MELSEC-QnA Series  FX-40DU-CAB FX-40DU-CAB-10M FX-40DU-CAB-20M FX-40DU-CAB-30M FX-50DU-CABL 11	GOT-F900 (excluding F920GOT-BBD5-K)  1 5 0 0 6 9  9Pin D-SUB, male	(1) - (2) (2) - (3) (3) - (4) (4) - (5) (5) - (7) (6) - (15) (7) - (16) (8) - (17) (9) - (18) (8) - (21)	FX1/FX2/FX2c A/QnA Series 1 13 0 0 0 0 14 25 25Pin D-SUB, male
Prepared by the user Cable length 3m (9'10") or less)  Resistance per wire: 0.67 \Omega or less Approximately AWG 28 or thicker)	F920GOT-BBD5-K  1 5 0 0 6 9  9Pin D-SUB, male	(1) (2) (2) (3) (3) (4) (4) (4) (20) (5) (7) (6) (15) (7) (16) (8) (17) (9) (12) (8) (21)	QnA Series  1 13  0 0  14 25  25Pin D-SUB, male
MELSEC-Q Series  RS-232C Connection  QC30R2	GOT-F900 (excluding F920GOT-BBD5-K)  5 1 9 6  9Pin D-SUB, female		Q Series  100055 20006 6Pin MINI DIN, male
Prepared by the user Cable length 3m (9'10") or less) Resistance per wire: 0.67 Ω or less Approximately AWG 28 or thicker)	F920GOT-BBD5-K  5 1 9 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	FG(Class D grounding)	Q Series  100 5 200 6 6Pin MINI DIN, male
MELSEC-A, QnA, Q Series Computer link  RS-422 Connection	GOT-F900 1 5 0 9 6 9 9Pin D-SUB, male	FG(Class D	Terminal Computer link unit side block (PLC side)
Prepared by user  f proper monitoring is not executed due to external noise when connecting A1SJ/1QC24 (-R2), connect all signals in pair with SG except SG and FG).	GOT-F900  5 1  9 6  9Pin D-SUB, female	FG(Class D grounding) (1) (1)C(DCD) (2) (2) (2)PD(RXD) (3) (3)SD(TXD) (4) (4)DR(DTR) (5) (6) (6)DR(DSR) (7) (7)RS(RTS) (8) (8)CS(CTS) Signal name for computer link	Computer link unit side  (PLC side)  1
MELSEC-A Series Computer link F2-232CAB-1	GOT-F900 5 0 0 9 6 9Pin D-SUB, female	(1) (2) (2) (2)SD(TXD) (3) (3) (3)BD(RXD) (7) (4)RS(RTS) (8) (5)CS(CTS) (6) (6)DR(DSR) (7)DG(GND) (8)CD(DCD) (4) (20)ER(DTR)	Computer link unit side (PLC side)  1 13 0 0 14 25 25Pin D-SUB, male

<sup>\*1</sup> F930GOT(-K), F920GOT-K cannot be used.

Model name		Application	Connection diagram	Application
MELSEC-F FX Series positioning unit connection FX-50DU-CAB0 FX-50DU-CAB0-1M FX-50DU-CAB0L *1	RS-422 Connection	GOT-F900 1 5 0 0 6 9 9Pin D-SUB, male	(1) (2) (7) (4) (6) (5) (3) (6) (1) (7) (4) (9) (5)	FX2N-10GM/FX2N-20GM
FX-30DU-GM-CAB	RS-422 Connection	GOT-F900 1 5 0 0 6 9 9Pin D-SUB, male	(1) - (2) (2) (3) (3) (4) (4) (4) (5) (5) (7) (6) (12) (7) (13) (8) (14) (9) (15) (15) (10) (20)	FX10GM/E-20GM/FX-20GM  1
Prepared by the user PU port of A500 Series, E500 Series or S500 Series	RS-422 Connection	GOT-F900 1 5 0 0 6 9 9Pin D-SUB, male	(1) - (3) (2) - (5) (5) - (1) (6) - (6) (7) - (4)	PU port  1 8  PJ-45 plug, male
Prepared by the user FR-A5NR of A500 Series	RS-422 Connection	GOT-F900 1 5 0 0 0 9 9Pin D-SUB, male	(1)	Terminal block of FR-A5NR
Prepared by the user  Between distributor and distributor	RS-422 Connection	Distributor  1 8 PJ-45 plug, male	(1)	Distributor 1 8 PJ-45 plug, male
Prepared by the user Between distributor and FR-A5NR of A500 Series		Distributor  1 8 PJ-45 plug, male	(1) SG (2) Do not connect. (2) (3) BD ND	Terminal block for FR-A5NR
Microcomputer  General-purpose equipment  Prepared by the user	RS-422 Connection	GOT-F900 1 5 0 9 9Pin D-SUB, male	FG(class D grounding)	Microcomputer side
Prepared by the user	RS-232C Connection	GOT-F900  5  1  9  9  9  9  9  9  9  10  10  10  10	(2) FG(class D grounding) (3) SD(TXD) (7) RD(RXD) (8) RD(RXD) (5) Signal name on signal name on microcomputer side	Microcomputer side

# Connecting two or more GOT-F900 units together

	<b>√,</b> 7∶F	emale type \( \tag{\current} \) "Male type The connector	r figure shows the engagement face.
Model name	Application	Connection diagram	Application
F2-232CAB-1	Personal computer(25Pin) connector  1 5	(1) shield (2) (3) (3) (3) (3) (5) (4) (4) (7) (5) (5) (20) (6)	GOT-F900  5  1  9  9  9  9  9  9  9  1  9  1  1  1
FX-232CAB-1	Personal computer (9Pin) connector  5 1 9 9 9 9 9Pin D-SUB, female	(2) (3) (3) (6) (6) (8) (5) (5) (4)	GOT-F900  5  1  9  9  9  9  9  9  9  1  1  1  1  1

# **Options**

# Options and replacement parts for the GOT-F900 Series



#### **EPROM** memory (for storing user screen data)

FX-EPROM-4M



F940GOT

#### **Application**

Stores user screens, alarm messages, and recipes.

Written with programming software.

The F9GT-40UMB data transfer adapter is also needed to transfer data to the F940GOT.

#### **Specification**

M27C4002-\*\*F (4 MBit)



#### Screen data transfer board

F9GT-40FMB



F940WGOT F940GOT

#### **Application**

Enables fast and easy screen data transfer between GOTs without a writing device such as a ROM writer (flash memory built in).





#### **Application**

Enables transfer of identical screen data to multiple F940GOTs at high speed (approx. two seconds for 64 KB data).

\* When using the programming software GT Designer 2, files are created in Intel HEX format. Transfer data to a ROM writer using communications software.

Guaranteed for one year from the manufacturing date



PM-20BL (Supplied as standard equipment)



#### F940WGOT F940GOT

**Application** Stores sampling data, alarm frequency, and alarm history. Screen data is stored in the built-in flash memory, and kept even if battery expires. The life is approximately five years.

#### **Specification**

Power supply: 3.6 V 850 mA

F930GOT F930GOT-K Handy GOT

**FX2NC-32BL** (Supplied as standard equipment)



Stores sampling data, alarm frequency, and alarm history. Screen data is stored in the built-in flash memory, and kept even if battery expires. The life is approximately five years.

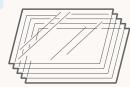
#### **Specification**

Power supply: 3.6 V 410 mA



#### **Transparent screen protection sheet**

F9WGT-40PSC (Five sheets per package)



F940WGOT

#### **Application**

Protects the display surface from oil or being soiled by handling. Only the soiled part on the adhesive sheet can be replaced.

#### **Specification**

Size (W) x (H): 158 x 92 mm (6.23" x 3.63")

#### F9GT-40PSC (Five sheets per package)



F940GOT Handy GOT

#### **Application**

Protects the display surface from oil or being soiled by handling. Only the soiled part on the adhesive sheet can be replaced.

#### **Specification**

F930GOT F930GOT-K

Size (W) x (H): 120 x 92 mm (4.73" x 3.63")

#### F9GT-30PSC (Five sheets per package)



Protects the display surface from oil or being soiled by handling. Only the soiled part on the adhesive sheet can be replaced.

#### **Specification**

Size (W) x (H): 120 x 45 mm (4.73" x 1.78")



F9GT-40LTS (Supplied as standard equipment)

#### F940GOT

#### **Application**

The life is 40,000 hours. A user can replace the backlight easily.

#### F9GT-30LTB (Supplied as standard equipment)

F930GOT

**Application** 

The life is 50,000 hours. A user can replace the backlight easily.



#### **Conversion box**

F9GT-HCNB





#### Handy GOT(excluding RH model)

Mounted on a panel face or mounted with an L-shaped mounting bracket to easily connect/disconnect the Handy GOT to the RS-422 port using the dedicated cable, F9GT-HCAB-[][]M.

#### **Accessorv**

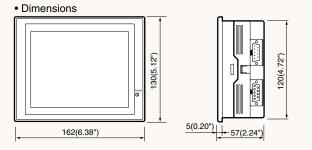
L-shaped mounting bracket

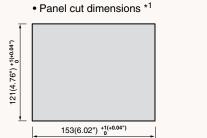
### FGOT and panel installation dimensions.

# F940WGOT Series Unit: mm (inches) • Dimensions • Panel cut dimensions \*1 215(8.46") 215(8.46") 206(8.11")\*1(\*0.04") 206(8.11")\*1(\*0.04")

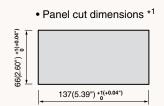
#### F940GOT Series F940GOT-SWD-E, F940GOT-LWD-E, F943GOT-SWD-E, F943GOT-LWD-E

Unit: mm (inches)





#### F930GOT Series F930GOT-BWD-E

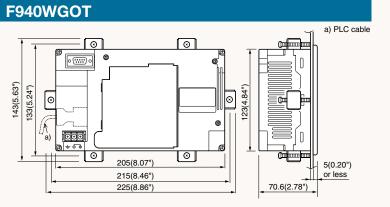


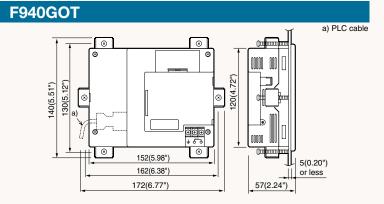
#### F930GOT-K F930GOT-BBD-K-E F920GOT-K F920GOT-BBD(5)K-E Unit: mm (inches) Unit: mm (inches) • Dimensions Panel cut dimensions \*1 Dimensions Panel cut dimensions \*1 7 8 9 4 5 6 0 2 3 0 0 0 92(3.62")+1(+0.04") 106(4.17") 155(6.10")<sup>+1(+0.04")</sup> 37.5(1.48")

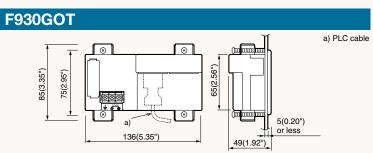
# Handy GOT F940GOT-SBD-H(-RH)-E, F940GOT-LBD-H(-RH)-E, F943GOT-SBD-H(-RH)-E, F943GOT-LBD-H(-RH)-E Unit: mm (inches) \*\*Dimensions\*\* \*\*Dimens

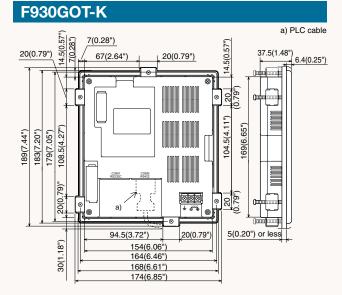
Dimensions required for panel installation

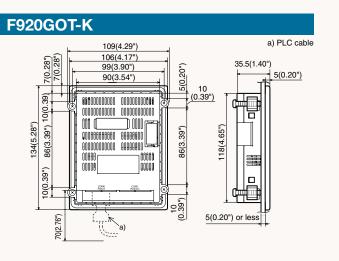
Unit: mm (inches)







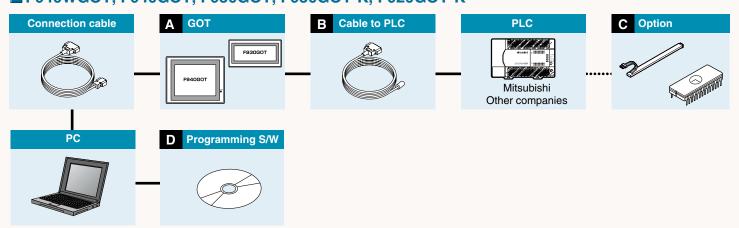




Unit: mm (inches)

<sup>\*1</sup> In addition to the panel cut dimension, a 10mm(0.4") space is required an every side to accommodate the mounting brackets.

#### **■** F940WGOT, F940GOT, F930GOT, F930GOT-K, F920GOT-K



Α	GOT (	(Power S <sub>l</sub>	pecifications)

Nome	Diamley	Dower	Built-in Interface		
Name	Display	Power	1 RS-422	2 RS-232C	
F940WGOT	6.7 inch 256 colors TIF LCD	24V DC	✓ <b>/</b>	/	
FOACOOT	5.7 inch 8 colors STN LCD	041/ DO		,	
F940GO1	5.7 inch monochrome STN LCD	24V DC	<b>,</b>	/	
F930GOT	4.4 inch blue STN LCD	24V DC	/	/	
F930GOT-K	4.4 inch blue STN LCD	24V DC	1	/	
FOOOCOT K	2.6 inch blue STN LCD	24V DC	1	✓	
F920GOT-K	2.6 inch blue STN LCD	5V DC		/	
	F940GOT F930GOT	F940WGOT 6.7 inch 256 colors TIF LCD  5.7 inch 8 colors STN LCD  5.7 inch monochrome STN LCD  F930GOT 4.4 inch blue STN LCD  F930GOT-K 4.4 inch blue STN LCD  2.6 inch blue STN LCD	F940WGOT   6.7 inch 256 colors TIF LCD   24V DC	Name         Display         Power         1 RS-422           F940WGOT         6.7 inch 256 colors TIF LCD         24V DC         ✓           F940GOT         5.7 inch 8 colors STN LCD         24V DC         ✓           F930GOT         4.4 inch blue STN LCD         24V DC         ✓           F930GOT-K         4.4 inch blue STN LCD         24V DC         ✓           F920GOT-K         2.6 inch blue STN LCD         24V DC         ✓	

#### B PLC ← GOT

#### •MITSUBISHI ELECTRIC

Interface	PLC		Cable length (m)	Model name	Note								
			3	FX-40DU-CAB									
		FX1,FX2,FX2C	10	FX-40DU-CAB-10M	FX CPU direct connection								
		FA1,1 A2,1 A20	20	FX-40DU-CAB-20M	- 1 X Of O direct confidence								
			30	FX-40DU-CAB-30M									
			3	FX-50DU-CABL	FX CPU direct connection (excluding F930GOT(-K), F920-GOT-K)								
			3	FX-50DU-CAB0									
		FX0,FX0S,FX1S,FX0N,	1	FX-50DU-CAB0-1M									
1 RS-422		FX1N,FX2N,FX1NC,	10	FX-50DU-CAB0-10M	FX CPU direct connection								
11 RS-422		FX2NC	20	FX-50DU-CAB0-20M									
	FAZNC	1 AZNO	30	FX-50DU-CAB0-30M									
			3	FX-50DU-CAB0L	FX CPU direct connection (excluding F930GOT(-K), F920-GOT-K)								
			3	FX-50DU-CAB0	FX2N-10GM,FX2N-20GM direct connection								
	MELSEC-F	FX Positioning	1	FX-50DU-CAB0-1M	,								
	FX Series	Series (10GM/20GM)										EX-SUDICABU	FX2N-10GM,FX2N-20GM direct connection
							(excluding F930GOT(-K), F920-GOT-K)						
			3	FX-30DU-GM-CAB	FX-10GM,FX-20GM,E-20GM direct connection								
		FX1S,FX1N	3	FX-232CAB-1	FX1N-232-BD is necessary								
		7710,17111	3 to 15	Prepared by user	TAIN ESE BB IO NOSSOCITY								
		FX <sub>2N</sub>	3	FX-232CAB-1	- FX2N-232-BD is necessary								
			3 to 15	Prepared by user	,								
2 RS-232C		FX1S,FX1N	3	F2-232CAB-1	- FX1N-CNV-BD and FX0N-232ADP are necessary								
Z N3-2320	. 7(15,17(1)	3 to 15	Prepared by user										
		FX2N	3	F2-232CAB-1	FX2N-CNV-BD and FX0N-232ADP are necessary								
	1 AZIV	3 to 15	Prepared by user	, ,									
		FX1NC,FX2NC	3	F2-232CAB-1	- FXon-232ADP or FX2nc-232ADP is necessary								
		77	3 to 15	Prepared by user	,								

Interface	Р	PLC		Model name	Note
			3	FX-40DU-CAB	
		A,QnA CPU,	10	FX-40DU-CAB-10M	- - A. QnA CPU direct connection
		Motion controller	20	FX-40DU-CAB-20M	A, QNA GPO direct connection
<b>7 5</b> 400			to 30	FX-40DU-CAB-30M	-
1 RS-422	MELSEC-A MELSEC-QnA MELSEC-Q		3	FX-50DU-CABL	A, QnA CPU direct connection (excluding F930GOT(-K), F920-GOT-K)
		A computer link	to 30	Prepared by user	-
		QnA,Q Serial communication unit	to 30	Prepared by user	-
	Series	A computer link	3	F2-232CAB-1	For D-SUB 25Pin
			3 to 15	Prepared by user	-
DO 0000		QnA,Q Serial	3	F2-232CAB-1	For D-SUB 25Pin
2 RS-232C		communication unit	3 to 15	Prepared by user	-
		Q CPU	3	QC30R2	Q CPU direct connection
_	FREQROL		3	Prepared by user	For one unit
1 RS-422	Series inverter	A500,E500,S500	3 to 30	Prepared by user	For more than one unit (1 to 10)

#### Other companies PLC

Please refer to Hardware manual for other PLC companies.

#### **C** Options (Parts)

Name	Туре	Model name	Note
	Transparent screen protection sheet	F9WGT-40PSC	Five sheets per package
F940WGOT	Screen data transfer board	F9GT-40FMB	Enables fast and easy screen data transfer between GOTs without the need for a writing device such as a ROM writer (flash memory built in).
	Transparent screen protection sheet	F9GT-40PSC	Five sheets per package
	EPROM memory	FX-EPROM-4M	Stores programming user screens, alarm messages, and recipes.  Written with programming software.  The F9GT-40UMB data transfer adapter is also needed to transfer data to the F940GOT.
F940GOT	Screen data transfer board	F9GT-40FMB	Enables fast and easy screen data transfer between GOTs without the needed for a writing device such as a ROM writer (flash memory built in).
		F9GT-40UMB	Enables transfer of identical screen data to multiple F940GOTs at high speed (approx. two seconds for 64 KB data).
F930GOT	Transparent screen protection sheet	F9GT-30PSC	Five sheets per package

#### Option (Repair parts)

Name	Туре	Model name	Note	
F940WGOT	Battery	PM-20BL	Built-in GOT	
F940GOT	Battery	PM-20BL		
F340GO1	Backlight	F9GT-40LTS	Built-in GOT	
F930GOT	Battery	FX2NC-32BL		
F930GO1	Backlight	F9GT-30LTS	Built-in GOT	

#### **D** Programming software

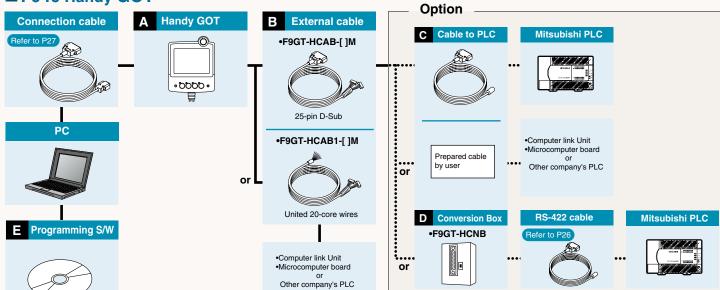
Name	Model name	Note	
GT Designer 2	SW[ ]D5C-DTD2-E	GOT-A900 and GOT-F900 programming software.	

#### GOT ← Personal computer

	<u> </u>		
Name	Туре	Model name	Note
F940WGOT, F940GOT	DC 000C Cable	F2-232CAB-1	D-SUB 25-Pin connection
F930GOT, HandyGOT	RS-232C Cable	FX-232CAB-1	D-SUB 9-Pin connection

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#### **■ F940 Handy GOT** Connection cable **A** Handy GOT B External cable •F9GT-HCAB-[]M



#### **A** Handy GOT Built-in inter face Power Display 1 RS-422 2 RS-232C 5.7 inch 8 colors STN LCD 5.7 inch monochrome STN LCD F940GOT-SBD-H-E F940GOT-LBD-H-E F940 Handy GOT F943GOT-SBD-H-E F943GOT-LBD-H-E 5.7 inch 8 colors STN LCD 1

B 1. Handy Got External cable								
1 RS-422	2 RS-232C	PLC	Cable length(m)	Model name	DF9GT-HCNB	Note		
/	/		3	F9GT-HCAB-3M	/	- D-SUB 25-Pin connection		
/	_	Common cable	10	F9GT-HCAB-10M	✓	D-30B 23-Fill confidential		
/	1		3	F9GT-HCAB1-3M	-	Multi-core wire		
1	_		10	F9GT-HCAR1-10M	_	Mulli-core wire		

Interface		PLC	Cable length(m)	Model name	Note
			1.5	F9GT-HCAB3-150	
		FX1,FX2,FX2C	3	<b>H</b> FX-40DU-CAB	FX CPU direct connection
			3	☐FX-50DU-CABL	
		FX <sub>0</sub> ,FX <sub>0</sub> s,FX <sub>1</sub> s,	1.5	F9GT-HCAB2-150	FX CPU direct connection
1 RS-422		FX <sub>0</sub> N,FX <sub>1</sub> N,FX <sub>2</sub> N,	3	HFX-50DU-CAB0	
		FX1NC,FX2NC	1	FX-50DU-CAB0-1M	
	MELSEC-F FX Series	I AINO,I AZNO	3	HFX-50DU-CAB0L	
		FX-Positioning (10GM/20GM)	1.5	F9GT-HCAB2-150	
			3	HFX-50DU-CAB0	FX2N-10GM,FX2N-20GM direct connection
			1	HFX-50DU-CAB0-1M	
			Max. 3	Prepared by user	FX-10GM,FX-20GM,E-20GM direct connection
		FX1s,FX1N		Prepared by user	FX <sub>1N</sub> -232-BD is necessary
		FX <sub>2N</sub>	Max. 6		FX <sub>2N</sub> -232-BD is necessary
2 RS-232C		FX1s,FX1N			FX <sub>1N</sub> -CNV-BD is necessary
		FX <sub>2N</sub>			FX <sub>2N</sub> -CNV-BD and FX0N-232ADP is necessary
		FX1NC,FX2NC			FXon-232ADP is FX2nc-232ADP necessary
		4.0-A. OPU	1.5	F9GT-HCAB3-150	
		A,QnA, CPU Motioncontroller	3	FX-40DU-CAB	A, QnA CPU direct connection
II RS-422		iviolioncontroller	3	☐FX-50DU-CABL	
II NO-422		A computer link	11.5	Prepared by user	
	MELSEC-A	QnA,Q Serial	44.5	D	
	MELSEC-QnA	communication unit	11.5	Prepared by user	
	MELSEC-Q	A computer link	Max. 6	Prepared by user	
2 RS-232C	Series	71 compater link	3	HF2-232CAB-1	For D-SUB 25-Pin
		QnA,Q Serial	Max. 6	Prepared by user	
		communication unit	3	<b>H</b> F2-232CAB-1	For D-SUB 25-Pin
		Q CPU	1.5	F9GT-HCAB5-150	Q CPU direct connection
	FREQROL	A500,E500,S500	3		For one unit
1 RS-422	Series inverter	, 1000, E000, 0000	11.5	Prepared by user	For multiple units (1 to 10)

<sup>\*1</sup> Please refer to Hardware manual for other PLC companies.

#### **■** F940 Handy GOT RH Type

A Handy GOT RH Type							
Model name	Name	Display	Power	Built	lt-in I/F		
woder name	Name	Dispiay	rowei	1 RS-422	2 RS-232C		
F940GOT-SBD-RH-E		5.7 inch 8 colors STN LCD		,			
F940GOT-LBD-RH-E		5.7 inch monochrome STN LCD	24V DC	<b>,</b>	1		
F943GOT-SBD-RH-E	RH Type	5.7 inch 8 colors STN LCD		<u>_</u>	,		
F943GOT-LBD-RH-E		5.7 inch monochrome STN LCD		_	<u> </u>		

B 1. Handy GOT External cable							
1 RS-422	2 RS-232C	PLC	Cable length(m)	Model name	Note		
1	/		3	F9GT-RHCAB-3M			
/	_	Common cable	6	F9GT-RHCAB-6M	D-SUB 25-Pin connection		
/	_		10	F9GT-RHCAB-10M			
1							

#### C 2. PLC ←→ GOT •MITSUBISHI FL FCTRIC

Inter face	F	PLC	Cable length(m)	Model name	Note
		FX1,FX2,FX2C	1.5	F9GT-RHCAB3-150	EV ORU disease commendian
		1 71,1 72,1 720	11.5	Prepared by user	FX CPU direct connection
1 RS-422		FX0,FX0S,FX1S,FX0N,FX1N,	1.5	F9GT-RHCAB2-150	FX CPU direct connection
II NO-422		FX2N,FX1NC,FX2NC	11.5	Prepared by user	FX CPU direct connection
	MELSEC-F	FX-Positioning	1.5	F9GT-RHCAB2-150	EV 10CM EV 00CM direct connection
	FX Series	(10GM/20GM)	11.5	Prepared by user	FX2N-10GM,FX2N-20GM direct connection
	I A Selles	FX1S,FX1N			FX <sub>1N</sub> -232-BD is necessary
		FX <sub>2N</sub>		Prepared by user	FX <sub>2N</sub> -232-BD is necessary
2 RS-232C		FX1s,FX1N	Max. 6		FX <sub>1N</sub> -CNV-BD is necessary
		FX <sub>2N</sub>			FX <sub>2N</sub> -CNV-BD and FX0N-232ADP is necessary
		FX1NC,FX2NC			FXon-232ADP or FX2Nc-232ADP is necessary
		A,QnA, CPU	1.5	F9GT-RHCAB3-150	CPU direct connection
		Motion controller	11.5	Prepared by user	OF O direct connection
11 RS-422	MELSEC-A	A computer link	11.5	Prepared by user	
	MELSEC-A MELSEC-QnA MELSEC-Q	QnA,Q Serial communication unit	11.5	Prepared by user	
		A computer link	Max. 6	Prepared by user	
2 RS-232C	Series	QnA,Q Serial communication unit	Max. 6	Prepared by user	
		Q CPU	1.5	F9GT-RHCAB5-150	Q CPU direct connection
	FREQROL	A500,E500,S500	3	Prepared by user	For one unit
I RS-422	Series inverter	A300,E300,3300	11.5	riepaieu by user	For multiple units (1 to 10)

#### •Other companies PLC

Name	PLC	Cable length(m)	Model name	Note
Prepared by user				

#### **■** Handy GOT Options

D Option (Parts)							
Name	Туре	Model name	Note				
	Transparent screen protection sheet	F9GT-40PSC	Five sheets per package				
Handy GOT	Conversion box	F9GT-HCNB	For attaching/detaching cable F9GT-HCAB-[ ]M to/from panel surface. (RS-422 port only. Excluding Handy GOT RH model)				

Option (Repart parts)				
Name	Туре	Model name	Note	
Handy GOT	Battery	FX2NC-32BL	Built-in GOT	

<b>E</b> Pro	E Programming software				
N	ame	Model name	Note		
GT Designe	er 2	SWI ID5C-DTD2-F			

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