

Human Machine Interfaces

GOT1000	
GOT1000 Family	420
Manuals	420
Configuration	421
Base Units/Terminals	422
Communication Options	422
Options and Accessories	423
Cables	424
Power Supply Specifications	426
Performance Specifications	427
Dimensions	429
F900GOT	
F900GOT Family	430
Manuals	430
Configuration	431
Base Units	432
Communications Interface	432
Cables	433
Options and Accessories	433
Screen Configuration Software and Programming Cables	433
Supported CPU and Communications Drivers	434
Performance Specifications	435
Dimensions	437
E-Series	
E-Series Family	438
Manuals	438
Configuration	439
Base Units	439
Communication Cables	440
Screen Configuration Software and Programming Cable	441
Communication Drivers	441
Options and Accessories	442
Performance Specifications	443
Dimensions	444
E-Keys	448

GOT1000 Family of HMI Terminals

The GOT1000 Series of Graphical Operator Terminals is an all new high performance line of panel mounted touch screen displays. Models in this family combine high resolution TFT (Thin Film Transistor) and STN (Super Twist Nematic) displays with a wide assortment of sizes and resolution to cover 5.7 inch QVGA to 15 inch XVGA terminals. Terminals support a wide range of connection types and vendors. GOT1000 terminals are configured with a single easy to use programming environment.

GOT1000 Standard Hardware Features

- Front panel mounted USB port
- Compact Flash expansion slot
- Communication option slots (built-in communication ports for GT11□□ and Handy models)
- Built-in power supply (AC or 24VDC)
- Ultra-thin design for today's compressed panel and installation space requirements
- Ultra-wide viewing angles combined with bright crystal clear display characteristics
- 64bit RISC processor combined with Mitsubishi Graphics Accelerator for high-speed processing and lightning quick touch operations and data crunching
- Expandable project memory and upgradeable OS
- NEMA 4, Semi-47, IP67F UL and CE environmental ratings

Advanced GOT1000 Maintenance Features (Supported by Mitsubishi Controllers Only)

- System Monitor — Direct access to devices in CPU
- Ladder Monitor (*1) — Direct access to CPU Logic
- List Editor — Modify Logic without a PC (supports A/AnS-Series CPU)
- Special Unit Monitor (*1) — Direct access to Special Function Modules (SFM) and Buffer Memory (BFM) data locations through special pre-programmed screens
- Motion Monitor — Access to Q-Motion CPU (Q172/3CPUs) parameters/monitoring data through special pre-programmed screens

- Network Monitor — Direct access to CPU stations on Mitsubishi's high-speed networks (MNET10/II/B)
- Transparent Mode — Simultaneous communication of both HMI and Mitsubishi controller from a PC through serial or high-speed MELSEC Bus connections
- Ladder Monitor function requires additional memory expansion board

GOT1000 Terminal Features Include

- Multi-Channel Connections: simultaneous communications to several devices
- Scripting functions allow terminals the ability to run aux codes
- Highly advanced alarm, messaging and recipe management
- Graphical trending and data sampling
- Multi language (Unicode 2.1) and True Type font support (64K available colors (*1))
- Multilevel security protection (device, screen, system and project levels)
- Advanced data sharing and gateway functions (FTP, email, client/server functions)
- Printing and report generation
- Supports time action/time scheduling
- Supports graphics, text and numerical data

Advanced GOT1000 Preventative Maintenance Features (GT15□□ Models Only)

- Built-in preventative maintenance allows users to monitor/schedule convenient times to replace or service GOT terminals
- Display Screen Monitor: Tracks total hours terminal has been in operation and number of touch presses
- Backlight Monitor: Tracks total hours light has been in operation
- Compact Flash Monitor: Tracks removable media write access

Note 1: Requires additional expansion memory.

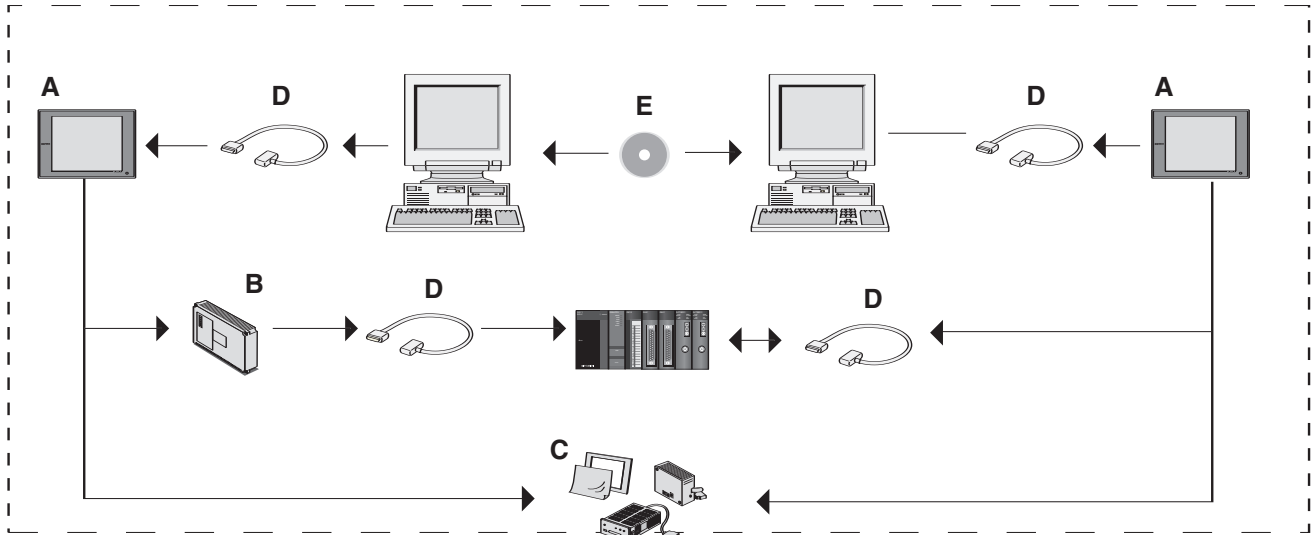
Manuals

Model Number	Manual Name	Contents	Included?
SH(NA)080520	GT Designer 2 Version 2 Operating Manual (startup introductory manual)	Explains how to install GT Designer 2 and screen editing methods for novice GOT users	Yes with software title
SH(NA)080521	GT Designer 2 Version 2 Operating Manual	Explains how to operate GT Designer 2 and how to transfer data to GOT	Yes with software title
SH(NA)080522	GT Designer 2 Version 2 Reference Manual	Provides specifications and setting details of various object functions used in GT Designer 2	Yes with software title
SH(NA)080528	GT15 User's Manual	Describes the GT15 hardware-relevant content such as part names, external dimensions, mounting, power supply wiring, specifications, and introduction to option devices. (Sold separately)	No
SH(NA)080529	GT Designer 2 Version 2 Basic Operation/Data Transfer Manual	Describes GT Designer 2 installation, basic operations for screen editing, data transfer methods, etc.	Yes with software title
SH(NA)080530	GT Designer 2 Version 2 Screen Design Manual (for GOT1000 Series) 1 of 2	Provides specifications and setting details of various object functions used in GT Designer 2.	Yes with software title
SH(NA)080531	GT Designer 2 Version 2 Screen Design Manual (for GOT1000 Series) 2 of 2		Yes with software title
SH(NA)080532	GOT1000 Series Connection Manual	Describes system configurations of the connection method applicable to GOT1000 series and cable creation (Sold separately)	Yes with software title
SH(NA)080533	GT Converter 2 Version 2 Operating Manual	Describes how to operate GT Converter 2.	Yes with software title
JY992D17501	GT11 User's Manual	Describes the GT11 hardware-relevant content such as part names, external dimensions, mounting, power supply wiring, specifications, and introduction to option devices.	No

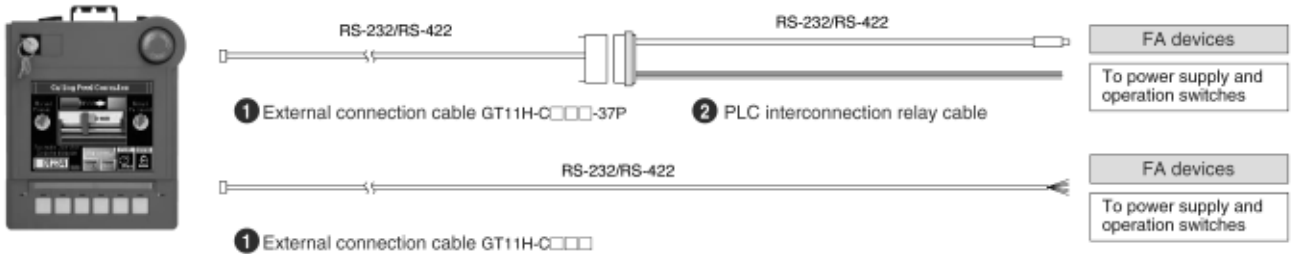
KEY
 A. Terminal Base Unit
 B. Communications Interface
 C. Options and Accessories
 D. Cables
 E. Configuration Software

GT15□□ Terminal Configuration

GT11□□ Terminal Configuration



Handy GOT



GT1595 □ - X T B A

Code	Screen Size
9	15"
8	12.1"
7	10.4"
6	8.4"
5	5.7"

Code	Resolution
None	Panel mounted type
HS	Handy type
V	Video/RGB Compatible

Code	Resolution
X	XGA (1024 x 768 dot)
S	SVGA (800 x 600 dot)
V	VGA (640 x 480 dot)
Q	QVGA (320 x 240 dot)

Code	Display Device
T	High Brightness and View Angle
N	TFT color
S	STN Color
L	STN Monochrome

Code	Display Color
5	256 colors or more
2	16 colors
0	Monochrome (Black and white) 16 step adjustment

Code	Power Supply
A	100 to 240 VAC
D	24 VDC

GT15: Full-specification model covering a broad range of applications to be used as stand-alone and network access control.
 GT11: Stand-alone model with full basic functions.

A. Base Units / Terminals

Model Name	Model Number	Size / Resolution	Display Type	Color	Power	Memory
GT15	GT1595	GT1595-XTBA	15" XGA [1024 x 768 dots]	TFT color display (High-brightness, wide viewing angle)	65,536 colors	100-240VAC
		GT1595-XTBD				24VDC
	GT1585	GT1585-STBA	12.1" SVGA [800 x 600 dots]	TFT color display (High-brightness, wide viewing angle)	65,536 colors	100-240VAC
		GT1585-STBD				24VDC
		GT1585V-STBA				100-240VAC
	GT1575	GT1575V-STBA	10.4" SVGA [800 x 600 dots]	TFT color display (High-brightness, wide viewing angle)	65,536 colors	100-240VAC
		GT1575-STBA				24VDC
		GT1575-STBD				24VDC
		GT1575-VTBA	10.4" VGA [640 x 480 dots]	TFT color display (High-brightness, wide viewing angle)	65,536 colors	100-240VAC
		GT1575-VTBD				24VDC
		GT1575-VNBA				256 colors
		GT1575-VNBD				24VDC
		GT1572-VNBA				16 colors
	GT1572-VNBD	24VDC				
	GT1565	GT1565-VTBA	8.4" VGA [640 x 480 dots]	TFT color display (High-brightness, wide viewing angle)	65,536 colors	100-240VAC
GT1565-VTBD		24VDC				
GT1562-VNBA		TFT color display		16 colors	100-240VAC	
GT1562-VNBD					24VDC	
GT1555	GT1555-QTBD	5.7" QVGA [320 x 240 dots]	TFT color display	65,536 colors	24VDC	
	GT1555-QSBD		STN color display	4,096 colors		
	GT1555-QLBD		STN color display	16 shades greyscale		
GT11	GT1155	5.7" QVGA [320 x 240 dots]	STN color display	256 colors	24VDC	
	GT1150		STN monochrome display	16-tone black/white adjustment		
	Handy GOT		STN color display	256 colors		
	GT1150HS-QLBD		STN monochrome display	16-tone black/white adjustment		

B. Communication Options

Item	Model Number	Description	Applicable Model		
			GT15	GT11	Handy GOT
BUS Connection Unit	GT15-75QBUSL	QBUS (1ch) unit Slim model for QCPU (Q-Mode) (1 connector) – No COM Option Expansion	✓	—	—
	GT15-75QBUS2L	QBUS (2ch) unit Slim model for QCPU (Q-Mode)(2 Connectors) – No COM Option Expansion	✓	—	—
	GT15-QBUS	QBUS (1ch) unit Standard model for QCPU (Q-Mode) (1 connector) – COM Option Expansion	✓	—	—
	GT15QBUS2	QBUS (2ch) unit Standard model for QCPU (Q-Mode) (2 connector) – COM Option Expansion	✓	—	—
	GT15-75ABUSL	ABUS (1ch) Slim model for QnA/A BUS (1 connector) – No COM Option Expansion	✓	—	—
	GT15-75ABUS2L	ABUS (2ch) Slim model for QnA/A BUS (2 connector) – No COM Option Expansion	✓	—	—
	GT15-ABUS	ABUS (1ch) unit Standard model for QnA/A BUS (1 connector) – COM Option Expansion	✓	—	—
Serial Communication Unit	GT15-RS2-9P	RS-232 serial communication unit (D-sub, 9-pin (male))	✓	—	—
	GT15-RS4-9S	RS-422 / 485 serial communication unit (D-sub, 9-pin (female))	✓	—	—
RS-422 Comm. Unit	GT15-RS4-TE	RS-422 / 485 serial communication unit (Terminal block)	✓	—	—
	GT15-RS2T4-9P	RS232->RS422 conversion unit RS-422, 9 pin	✓	—	—
Ethernet	GT15-RS2T4-25P	RS232->RS422 conversion unit RS-422, 25 pin	✓	—	—
	GT15-J71E71-100	Ethernet (100Base-TX/10Base-T) (Occupies 1 Physical Slot) – Com Option Expansion	✓	—	—
MELSECNET/H	GT15-J71LP23-25	MNET/H Optical Loop Unit (Occupies 2 Physical Slots) – Com Option Expansion	✓	—	—
	GT15-J71BR13	MNET/H Coaxial Bus Unit (Occupies 2 Physical Slots) – Com Option Expansion	✓	—	—
MELSECNET 10	GT15-75J71LP23-Z	MNET/10 Optical Loop Unit (Occupies 2 Physical Slots) – No Com Option Expansion	✓	—	—
	GT15-75J71BR13-Z	MNET/10 Coaxial Bus Unit (Occupies 2 Physical Slots) – No Com Option Expansion	✓	—	—
CC-Link	GT15-75J61BT13-Z	CC-LinkI Intelligent Device Station Unit (Occupies 2 Physical Slots) – No Com Option Expansion	✓	—	—
	GT15-J61BT13	C-LinkI V2 Intelligent Device Station Unit (Occupies 2 Physical slots) – Com Option Expansion	✓	—	—
Printer Interface	GT15-PRN	USB Printer Interface (Occupies 1 Physical Slot) – Com Option Expansion	✓	—	—
Video/ RGB Input	GT15V-75V4R1	Video / RGB Input Combined Interface (GT1585/75V* Models Only)	✓	—	—
RGB Input	GT15V-75V4	Video Input Interface (GT1585/75V* Models Only)	✓	—	—
Video Input	GT15V-75R1	RGB Input Interface (GT1585/75V* Models Only)	✓	—	—
RGB Output	GT15V-75OUT	RGB Output Interface (GT1585/75V* Models Only)	✓	—	—

C. Options and Accessories

Product	Model Number	Description	Applicable Model		
			GT15	GT11	Handy GOT
Backlights	GT15-90XLTT	For 15" type High-brightness, wide viewing angle TFT (XGA)	✓	—	—
	GT15-80SLTT	For 12.1" type High-brightness, wide viewing angle TFT (SVGA)	✓	—	—
	GT15-70SLTT	For 10.4" type High-brightness, wide viewing angle TFT (SVGA)	✓	—	—
	GT15-70VLTT	For 10.4" type High-brightness, wide viewing angle TFT (VGA)	✓	—	—
	GT15-70VLTN	For 10.4" type TFT (VGA)	✓	—	—
	GT15-60VLTT	For 8.4" type High-brightness, wide viewing angle TFT (VGA)	✓	—	—
	GT15-60VLTN	For 8.4" type TFT (VGA)	✓	—	—
Optional Function Board	GT15-FNB	Optional function board (A/FX ladder monitor) (W/O expan. memory)	✓	—	—
	GT15-QFNB	Optional function board (Q/QnA/A/FX ladder monitor) (W/O expan. memory)	✓	—	—
	GT15-QFNB16M	Optional function board (Q/QnA/A/FX ladder monitor) 16MB	✓	—	—
	GT15-QFNB32M	Optional function board (Q/QnA/A/FX ladder monitor) 32MB	✓	—	—
	GT15-QFNB48M	Optional function board (Q/QnA/A/FX ladder monitor) 48MB	✓	—	—
	GT11-50FNB	Optional function board	—	✓	✓
Multi-Color Display Board	GT15-XHNB	Multi-color display board for 65,536 color display	✓	—	—
Protection Sheets	GT15-90PSCB	Protection sheet for 15" type, Clear (Set of 5)	✓	—	—
	GT15-90PSGB	Protection sheet for 15" type, Anti-glare (Set of 5)	✓	—	—
	GT15-90PSCW	Protection sheet for 15" type, Clear with white frame (Set of 5)	✓	—	—
	GT15-90PSGW	Protection sheet for 15" type, Anti-glare with white frame (Set of 5)	✓	—	—
	GT15-80PSCB	Protection sheet for 12.1" type, Clear (Set of 5)	✓	—	—
	GT15-80PSGB	Protection sheet for 12.1" type, Anti-glare (Set of 5)	✓	—	—
	GT15-80PSGW	Protection sheet for 12.1" type, Clear with white frame (Set of 5)	✓	—	—
	GT15-80PSGW	Protection sheet for 12.1" type, Anti-glare with white frame (Set of 5)	✓	—	—
	GT15-70PSCB	Protection sheet for 10.4" type, Clear (Set of 5)	✓	—	—
	GT15-70PSGB	Protection sheet for 10.4" type, Anti-glare (Set of 5)	✓	—	—
	GT15-70PSCW	Protection sheet for 10.4" type, Clear with white frame (Set of 5)	✓	—	—
	GT15-70PSGW	Protection sheet for 10.4" type, Anti-glare with white frame (Set of 5)	✓	—	—
	GT15-60PSCB	Protection sheet for 8.4" type, Clear (Set of 5)	✓	—	—
	GT15-60PSGB	Protection sheet for 8.4" type, Anti-glare (Set of 5)	✓	—	—
	GT15-60PSCW	Protection sheet for 8.4" type, Clear with white frame (Set of 5)	✓	—	—
	GT15-60PSGW	Protection sheet for 8.4" type, Anti-glare with white frame (Set of 5)	✓	—	—
	GT11-50PSCB	Protection sheet for 5.7" type, Clear (Set of 5)	—	✓	—
	GT11-50PSGB	Protection sheet for 5.7" type, Anti-glare (Set of 5)	—	✓	—
	GT11-50PSCW	Protection sheet for 5.7" type, Clear with white frame (Set of 5)	—	✓	—
	GT11-50PSGW	Protection sheet for 5.7" type, Anti-glare with white frame (Set of 5)	—	✓	—
GT11H-50PSC	Protection sheet for 5.7" type (For Handy GOT) Clear (Set of 5)	—	—	✓	
USB IP67I Rated Port	GT15-UCOV	IP67I rated replacement port cover for unit front USB interface	✓	—	—
	GT11-50UCOV		—	✓	—
Emergency Stop Switch Guard	GT11H-50ESCOV	To prevent operational error	—	✓	—
Stand	GT15-90STAND	Debugging stand for 15" type	✓	—	—
	GT15-80STAND	Debugging stand for 12.1" type	✓	—	—
	GT15-70STAND	Debugging stand for 8.4"/10.4" type	✓	—	—
	A9GT-50STAND	Debugging stand for 5.7" type	—	✓	—
CF Card	GT05-MEM-32MC	32MB Flash ROM	✓	✓	✓
	GT05-MEM-64MC	64MB Flash ROM	✓	✓	✓
	GT05-MEM-128MC	128MB Flash ROM	✓	✓	✓
	GT05-MEM-256MC	256MB Flash ROM	✓	✓	✓
	CF-64MB	64MB Compact Flash Card	✓	✓	✓
	CF-128MB	128MB Compact Flash Card	✓	✓	✓
	CF-256MB	256MB Compact Flash Card	✓	✓	✓
	CF-512MB	512MB Compact Flash Card	✓	✓	✓
	CF-1GB	1GB Compact Flash Card	✓	✓	✓
CF-4GB	4GB Compact Flash Card	✓	✓	✓	
Memory Card Adaptor	GT05-MEM-ADPC	CF card — memory card (TYPE II) conversion adaptor	✓	✓	✓
	CF-ADAPTER	Compact Flash (CF) Adapter (TYPE II)	✓	✓	✓
Attachment	GT15-60ATT-96	Attachment for 8.4" type, A960GOT_ — GT1565/GT1562	✓	—	—
	GT15-60ATT-97	Attachment for 8.4" type, A97_GOT_ — GT1565/GT1562	✓	—	—
Battery	GT15-BAT	Data backup battery for clock and maintenance notification	✓	—	—
	GT11-50BAT	Data backup battery for clock, alarm history, and recipes	—	✓	—
Misc	D808D197G51	GT15 Series mounting hardware (4 pieces)	✓	—	—
	K97666D18101	GT11/F94 Series mounting hardware (4 pieces)	—	✓	—

D. Cables

Product Name		Model Number	Length	3rd Party	Applications	GT15	GT11	GOT Handy						
Q Bus Connection Cable*2 (for QCPU (Q Mode))	Q Expansion Cable Inter-GOT Connection Cable	GT15-QC06B	0.6m	✓	For connection between QCPU and GOT For connection between GOT and GOT	✓	—	—						
		GT15-QC12B	1.2m											
		GT15-QC30B	3m											
		GT15-QC50B	5m											
		GT15-QC100B	10m											
	Q Long-Distance Connection Cable Inter-GOT Long-Distance Connection Cable	GT15-QC150BS	15m	✓	For connection between A9GT-QCNB and GOT (long distance) For connection between GOT and GOT (long distance)	✓	—	—						
		GT15-QC200BS	20m											
		GT15-QC250BS	25m											
		GT15-QC300BS	30m											
		GT15-QC350BS	35m											
Bus Extension Connector Box		A9GT-QCNB	—	—	*Used for QCPU long-distance bus connection	✓	—	—						
A Bus Connection Cable (*2) (For QnA/ACPU/Motion Controller (A Series))	Large CPU Expansion Cable	GT15-C12NB	1.2m	✓	For connection between QnA/ACPU/motion controller (A Series/expansion base) and GOT	✓	—	—						
		GT15-C30NB	3m											
		GT15-C50NB	5m											
		GT15-AC06B	0.6m											
		GT15-AC12B	1.2m											
		GT15-AC30B	3m											
		GT15-AC50B	5m											
		GT15-A370C12B-S1	1.2m											
		GT15-A370C25B-S1	2.5m											
		GT15-AC50B	5m											
	Small CPU Expansion Cable Inter-GOT Connection Cable	GT15-A370C12B	1.2m	✓	For connection between QnA/ACPU/motion controller (A Series/expansion base) and A7GT-CNB	✓	—	—						
		GT15-A370C25B	2.5m											
		GT15-A1SC07B	0.7m											
		GT15-A1SC12B	1.2m											
		GT15-A1SC30B	3m											
		GT15-A1SC50B	5m											
		Small CPU Expansion Cable	GT15-A1SC05NB						0.45m	✓	For connection between QnA/AnSCPU and A7GT-CNB	✓	—	—
			GT15-A1SC07NB						0.7m					
			GT15-A1SC30NB						3m					
			GT15-A1SC50NB						5m					
	Small CPU Long-Distance Connection Cable	GT15-C100EXSS-1	10m	✓	For connection between QnA/AnSCPU/motion controller (A Series) and GOT (long distance) For connection between A7GT-CNB and GOT (long distance) Combination of GT15-EXCNB and GT15-C□□BS	✓	—	—						
		GT15-C200EXSS-1	20.6m											
		GT15-C300EXSS-1	30.6m											
	Inter-GOT Connection Cable	GT15-C07BS	0.7m	✓	For connection between motion controller (A Series) and GOT (long distance) For connection between GOT and GOT (long distance)	✓	—	—						
		GT15-C12BS	1.2m											
		GT15-C30BS	3m											
		GT15-C50BS	5m											
		GT15-C100BS	10m											
Small CPU Long-Distance Connection Cable Inter-GOT Long-Distance Connection Cable	GT15-C200BS	20m	✓	For connection between motion controller (A Series) and GOT (long distance) For connection between GOT and GOT (long distance)	✓	—	—							
	GT15-C300BS	30m												
	GT15-C300BS	30m												
A0J2HCPU Connect Cable		GT15-J2C10B	1m	✓	For connection between A0J2HCPU power supply unit (A0J2-PW) and GOT	✓	—	—						
Bus Connector Conversion Box		A7GT-CNB	—	—	For QnA/ACPU long-distance bus connection	✓	—	—						
Buffer Circuit Cable		GT15-EXCNB	0.5m	✓	Used with GT15-C □□BS as GT15-C□□EXSS-1	✓	—	—						
RS-422 Cable	QCPU (Q Mode) /QnA/ACPU Direct Connection Cable Computer Link	GT01-C30R4-25P	3m	—	For connection between QCPU (Q mode) /QnA/ACPU/motion controller (A Series) and GOT, for connection between FA-CNV_CBL and GOT, for connection between serial communication unit (AJ71QC24(N)-R4) and GOT	✓	✓	—						
		GT01-C100R4-25P	10m											
		GT01-C200R4-25P	20m											
		GT01-C300R4-25P	30m											
		GT01-C10R4-8P	1m											
	FX Direct Connection Cable FX Function Extension Board Communication Cable	GT01-C30R4-8P	3m	—	For connection between FXCPU (FX0, FX0S, FX0N, FX1S, FX1N, FX2N, FX2NC) and GOT For connection between FXCPU expansion board (FX1N-422-BD, FX2N-422-BD) and GOT	✓	✓	—						
		GT01-C100R4-8P	10m											
		GT01-C200R4-8P	20m											
		GT01-C300R4-8P	30m											
		GT01-C300R4-8P	30m											
QCPU Direct		GT01-C30R2-6P	3m	—	For connection between QCPU and GOT	✓	✓	✓						
RS-232C Cable	Cable For FX Function Extension Board Connection Cable, FX Function Extension Adaptor Connection and Data Transmission	GT01-C30R2-9S	3m	—	For connection between FXCPU extension board (FX_N-232-BD), FX3U-232-BD) and GOT, for connection between FXCPU function extension adaptor (FX2NC-232ADP) and GOT, for connection between personal computer (drawing software) (D-sub 9-pin: female) and GOT (D-sub 9-pin: female)	✓	✓	—						
		GT01-C30R2-25P	3m	—	For connection between personal computer (drawing software) (D-sub 25 pins: female) and GOT (D-sub 25 pins: female)	✓	✓	—						
B1 External Connection Cable	FA Device, Power Supply, Operation Switch Connection Cable	GT11H-C30-37P	3m	—	For connection between FA device connection relay cable and GOT	—	—	✓						
		GT11H-C60-37P	6m											
		GT11H-C100-37P	10m											
C1 External Connection Cable	FA Device, Power Supply, Operation Switch Connection Cable	GT11H-C30	3m	—	For connection between FA device, power supply, operation switch and GOT	—	—	✓						
		GT11H-C60	6m											
		GT11H-C100	10m											
B2 FA Device Connection Relay Cable	RS-422, Power Supply, Operation Switch Connection Cable	GT11H-C15R4-8P	1.5m	—	For connection between FXCPU and GOT For connection between power supply, operation switch and GOT	—	—	✓						
		GT11H-C15R4-25P	1.5m	—	For connection between A/QnACPU and GOT For connection between power supply, operation switch and GOT	—	—	✓						
	RS-232, Power Supply, Ops. Switch Connect. Cable	GT11H-C15R2-6P	1.5m	—	For connection between QCPU and GOT For connection between power supply, operation switch and GOT	—	—	✓						
USB Cable	Cable for Data Transmission	GT09-C20USB-5P	2m	✓	For connection between personal computer (drawing software) (USB) and GOT (USB Mini-B)	✓	✓	✓						

Notes:

- ✓ = Available from Mitsubishi Electric System Service. Contact your local sales office for details.
- Confirm the connector dimension/shape of the bus connection cables on page 429 "Bus connection cables, etc."

Product Name		Model Number	Cable Length	3rd Party Products (*2)	GOT Connection Designation	GT15	GT11	Handy GOT	
RS-232 Cable	For Omron Corp. PLC	GT09-C30R20101-9P	3m	✓	PLC CPU: CQM1/CQM1H/CS1/CJ1/CV500/CV1000/CV2000/CVM1Serial communication unit: CS1W-SCU2Communication board: C200HW-COM2/COM05/COM06Serial communication board: CQM1-SCB41/CS1W-SCB41/CS1W-SCB21	✓	✓	-	
		GT09-C30R20102-25S	3m		Connection cable: CQM1-CIF01				
		GT09-C30R2103-25P	3m		Base mounted type upper link unit: C500H-LK201-V1				
	For KEYENCE Corp. PLC	GT09-C30R21101-6P (*1)	3m		PLC CPU: KV-700/1000				
		GT09-C30R21102-9S	3m		Communication unit: KV-L20/L20R port1				
		GT09-C30R21103-3T	3m		Communication unit: KV-L20/L20R port2				
	Cable for Sharp Corp. PLC	GT09-C30R20601-15P	3m		PLC CPU: JW-22CU/70CUH/100CUH/100CU				
		GT09-C30R20602-15P	3m		PLC CPU: JW-32CUH/33CUH				
	For Toshiba Corp. PLC	GT09-C30R20501-9P	3m		PLC CPU: T2E				
		GT09-C30R20502-15P (*1)	3m		PLC CPU: T2N				
	For Hitachi Industrial Equip. Systems Co., Ltd. PLC	GT09-C30R20401-15P	3m		PLC CPU: H-4010/H series board type/EH-150 seriesIntelligent serial port module: COMM-H/COMM-2H				
		GT09-C30R20402-15P	3m		PLC CPU: H-4010/EH-150 series				
		GT09-C30R20901-25P (*1)	3m		RS-422/232 converter adaptor: AFPB8550				
	For Matsushita Electric Works, Ltd. PLC	GT09-C30R20902-9P	3m		PLC CPU: FP2/FP2SH/FP10(S)/FP10SH/FP-MComputer communication unit: AFP2462/AFP3462/AFP5462				
		GT09-C30R20903-9P (*1)	3m		PLC CPU: FP1-C24C/C40C				
		GT09-C30R20904-3C	3m		PLC CPU: FP1-C16CT/C32CT				
	For Yaskawa Electric Corp. PLC	GT09-C30R20201-9P	3m		PLC CPU: PROGIC-8/MP-920/MP-930				
		GT09-C30R20202-15P	3m		PLC CPU: PROGIC-8				
		GT09-C30R20203-9P	3m		PLC CPU: CP-9300MS				
		GT09-C30R20204-14P	3m		PLC CPU: MP-940				
For Yokogawa Electric Corp. PLC	GT09-C30R20205-25P	3m	MEMOBUS module: CP-217IF Yokogawa Electric Corp. personal computer module: LC01-ONLC02-0N						
	GT09-C30R20301-9P	3m	CPU port/D-sub 9-pin converter cable: KM10-0C						
	GT09-C30R20302-9P	3m	Personal computer module: F3LC11-1N/F3LC11-1F/F3LC12-1F/F3LC11-2N						
For Allen-Bradley PLC	GT09-C30R20701-9S	3m	PLC CPU: SL500 series Converter: 1761-NET-AIC						
	GT09-C30R20702-25P (*1)	3m	Adaptor: 1770-KF3						
SIEMENS PLC	GT09-C30R20801-9S	3m	HMI adaptor						
RS-422 Cable	For Omron Corp. PLC	GT09-C30R40101-9P	3m	✓	PLC CPU: CV500/CV1000/CV2000/CVM1Serial communication board: COM1-SCB41/CS1W-SCB41Communication board: C200HW-COM3/COM06	✓ (*3)	✓	-	
		GT09-C100R40101-9P	10m						
		GT09-C200R40101-9P	20m						
		GT09-C300R40101-9P	30m						
		GT09-C30R40102-9P	3m		Base mounted type upper link unit: C200HW-COM3-C200HW-COM6				
		GT09-C100R40102-9P	10m						
	GT09-C200R40102-9P	20m							
	GT09-C300R40102-9P	30m							
	For KEYENCE Corp. PLC	GT09-C30R41101-5T	3m		Communication unit: KV-L20/L20R port2				
		GT09-C100R41101-5T	10m						
		GT09-C200R41101-5T	20m						
		GT09-C300R41101-5T	30m						
		For Sharp Corp. PLC	GT09-C30R40601-15P		3m				PLC CPU: JW-22CU/70CUH/100CUH/100CU
			GT09-C100R40601-15P		10m				
	GT09-C200R40601-15P		20m						
	GT09-C300R40601-15P		30m						
	GT09-C30R40602-15P		3m		PLC CPU: JW-32CUH/33CUH				
	GT09-C100R40602-15P		10m						
	GT09-C200R40602-15P		20m						
	GT09-C300R40602-15P		30m						
	GT09-C30R40603-6T		3m		Link unit: JW-21CM/10CM/ZW-10CM				
	GT09-C100R40603-6T		10m						
	GT09-C200R40603-6T	20m							
	GT09-C300R40603-6T	3m							
	For Toshiba Corp. PLC	GT09-C30R40501-15P	3m		PLC CPU: T2/T3/T3H/model3000(S3)				
		GT09-C100R40501-15P	10m						
		GT09-C200R40501-15P	20m						
		GT09-C300R40501-15P	30m						
		GT09-C30R40502-6C	3m		PLC CPU: T2E				
		GT09-C100R40502-6C	10m						
		GT09-C200R40502-6C	20m						
		GT09-C300R40502-6C	30m						
	For Hitachi Industrial Equipment Systems Co., Ltd. PLC	GT09-C30R40503-15P (*1)	3m		PLC CPU: T2N				
		GT09-C100R40503-15P (*1)	10m						
		GT09-C200R40503-15P (*1)	20m						
		GT09-C300R40503-15P (*1)	30m						
		GT09-C30R40401-7T	3m		Intelligent serial port module: COMM-H/COMM-2H				
		GT09-C100R40401-7T	10m						
	GT09-C200R40401-7T	20m							
	GT09-C300R40401-7T	30m							
For Yaskawa Electric Corp. PLC	GT09-C30R40201-9P	3m	MEMOBUS module: JAMSC-120NOM27100/JAMSC-IF612						
	GT09-C100R40201-9P	10m							
	GT09-C200R40201-9P	20m							
	GT09-C300R40201-9P	30m							
	GT09-C30R40202-14P	3m	PLC CPU:MP940						
	GT09-C100R40202-14P	10m							
GT09-C200R40202-14P	20m								
GT09-C300R40202-14P	30m								
For Yokogawa Electric Corp. PLC	GT09-C30R40301-6T	3m	Personal Computer Link Module F3LC11-2N						
	GT09-C100R40301-6T	10m							
	GT09-C200R40301-6T	20m							
	GT09-C300R40301-6T	30m							
	GT09-C30R40302-6T	3m	Personal computer link module: LC01-ON/LC02-0N						
	GT09-C100R40302-6T	10m							
GT09-C200R40302-6T	20m								
GT09-C300R40302-6T	30m								

Notes:

1. Available soon.
2. Items listed above developed by Mitsubishi Electric System & Service Co., LTD., and sold through your local sales office.
3. RS-422 conversion unit (GT15-RS2T4-9P) is required.

E. Screen Configuration Software and Programming Cable

Software Model Number	Programming Cable Part Number
GT-WORKS2-C1	AC30R2-9SS, FX-232CAB-1, GT09-C30USB-5P and GT01-C30R2-9S

General Specifications

Item	Specifications					
Operating Ambient Temperature	Display	0 to 50°C (*6)				
	Other Than Display	0 to 55°C (*6)				
Storage Ambient Temperature	-20 to 60°C					
Operating Ambient Humidity (*1)	10 to 90% RH, non-condensing					
Storage Ambient Humidity (*1)	10 to 90% RH, non-condensing					
Vibration Resistance (*2)	Based on JIS B 3502, IEC61131-2		Frequency	Acceleration	Single amplitude	Sweep count 10 times in each of X, Y, and Z directions
		If intermittent vibration occurs	5 to 9Hz 9 to 150Hz	— 9.8m/s ²	3.5mm —	
		If continuous vibration occurs	5 to 9Hz	—	1.75mm	
			9 to 150Hz	4.9m/s ²	—	
Impact Resistance	Based on JIS B 3502, IEC 61131-2 (147m/s ² , 3 times in X, Y and Z directions)					
Operating Atmosphere	No corrosive gas					
Altitude (*3)	2000m or less					
Installation Location	Inside the control panel					
Overvoltage Category (*4)	Category II or lower					
Contamination (*5)	Level 2 or less					
Cooling Method	Self cooling					

Notes:

- Wet bulb temperature for STN display type is 39°C or lower.
- Refer to the Communication Unit User's Manual for vibration resistance specifications when using a MELSECNET/10 communication unit (GT15-75J71LP23-Z, GT15-75J71BR13-Z) or a CC-Link communication unit (GT15-75J61BT13-Z). Communication unit specifications are different from GOT specifications.
- Do not operate or store the GOT unit in pressurized environments where the pressure exceeds the 0m elevation atmospheric pressure, as this could result in abnormal operation.
- Assuming that the device is connected at some point between a public power distribution network and local system equipment. Category II applies to devices that are supplied with power from fixed equipment. The surge withstand voltage is 2500V for devices with ratings up to 300V.
- Index that indicates the level of foreign conductive matter in the operating environment of device. Contamination level 2 denotes contamination by non-conductive matter only, though momentary conductivity may occur due to occasional condensation.
- 0 to 40°C for GT115□HS.

Power Supply Specifications

Item	Specifications									
	GT1595-XTBA	GT1585V-STBA GT1585-STBA	GT1575V-STBA GT1575-STBA GT1575-VTBA GT1575-VNBA GT1565-VTBA GT1562-VNBA	GT1595-XTBD	GT1585-STBD	GT1575-STBD GT1575-VTBD GT1575-VNBD GT1572-VNBD GT1565-VTBD GT1562-VNBD	GT1555-QTBD	GT1555-QSBD	GT1550-QLBD	
Input Power Supply Voltage	100 to 240VAC (+10% -15%)			24VDC (+25%, -20%)						
Input Frequency	50/60Hz 5%			—						
Input Maximum Apparent Power	110VA (at max. load)			—						
Power Consumption	With Backlight On	56W or less	41W or less	39W or less	57W or less (2380mA/24VDC)	43W or less (1790mA/24VDC)	41W or less (1710mA/24VDC)	18W or less (750mA/24VDC)	17W or less (710mA/24VDC)	15W or less (620mA/24VDC)
	With Backlight Off	30W or less	28W or less		32W or less (1330mA/24VDC)	30W or less (1250mA/24VDC)		13W or less (540mA/24VDC)		
Rush Current	50A or less (4ms, at max. load)	45A or less (4ms, at max. load)	40A or less (4ms, at max. load)	100A or less (4ms) (maximum load)	115A or less (1ms) (maximum load)		60A or less (1ms) (maximum load)			
Permissible Instantaneous Failure Time	20ms (100VAC or longer)				Within 10ms					
Noise Resistance	1,500Vp-p noise voltage, 1μs noise width (when measuring with a noise simulator under 25 to 60Hz noise frequency)				500Vp-p noise voltage, 1 s noise width (when measuring with a noise simulator under 25 to 60Hz noise frequency)					
Dielectric Withstand Voltage	1500VAC between power supply terminal and ground for 1 minute.				500VAC for 1 minute across power terminals and earth					
Insulation Resistance	10MΩ or higher with an insulation resistance tester (500VDC between power supply terminal and ground)									
Applicable Wire Size	0.75 to 2 [mm ²]									
Crimp Terminal	Crimp terminal for M3 screw RAV1.25-3, V2-S3.3, V2-N3A, FV2-N3A									
Tightening Torque (Terminal Block's Terminal Screws)	0.5 to 0.8 [N·m]									

GT15 Performance Specifications

Sold by AA Electric 1-800-237-8274 Lakeland, FL • Lawrenceville, GA • Greensboro, NC • East Rutherford, NJ www.AAelectric.com

Item	Specifications											
	GT1595-VTBA GT1595-VTBD	GT1585V-STBA GT1585V-STBD	GT1575V-STBA GT1575V-STBD	GT1575-VTBA GT1575-VTBD	GT1575-VNBA GT1575-VNBD	GT1572-VNBA GT1572-VNBD	GT1565-VTBA GT1565-VTBD	GT1562-VNBA GT1562-VNBD	GT1555-QTBD	GT1555-QSBD	GT1550-QLBD	
Display	Type	TFT color display							TFT	STN		
	Screen Size	15"	12.1"	10.4"			8.4"		5.7"			
	Resolution (Dot)	XGA: 1024 x 768	SVGA: 800 x 600		VGA: 640 x 480				QVGA: 320 x 240			
	Display Size (W x H) mm	304.1 x 228.1	246 x 184.5		211 x 158			171 x 128		115 x 86		
	Number of Display Chars.	For 16-dot standard font: 64 chars. x 48 lines For 12-dot standard font: 85 chars. x 64 lines	For 16-dot standard font: 50 chars. x 37 lines For 12-dot standard font: 66 chars. x 50 lines		For 16-dot standard font: 40 chars. x 30 lines For 12-dot standard font: 53 chars. x 40 lines				For 16-dot standard font: 20 chars. x 15 lines For 12-dot standard font: 26 chars. x 20 lines			
	Display Color	65,536				256	16	65,536	16	65,536	4096	16
	View Angle	Right and left: 75°, Up: 50°, Down: 60°	Right and left: 60°, Up: 40°, Down: 50°	GT1575V: 85° GT1575: Right and left: 50°, Up: 35°, Down: 45°	Left, Right, Top, Bottom: 85°	Left, Right: 45°, Top: 30°, Bottom: 20°		Left, Right: 65° Top: 50°, Bottom: 60°	Left/Right: 45° Top: 20°, Bottom: 20°	Left, Right: 70°, Top: 70°, Bottom: 50°	Left, Right: 55°, Top: 65°, Bottom: 70°	Left, Right: 45°, Top: 20°, Bottom: 40°
	Contrast Adjustment	None							16 Levels			
	Intensity	450 [cd/m ²]	350 [cd/m ²]	GT1575V: 400 [cd/m ²] GT1575: 280 [cd/m ²]		280 [cd/m ²]		380 [cd/m ²]	150 [cd/m ²]	400 [cd/m ²]	380 [cd/m ²]	220 [cd/m ²]
	Intensity Adjustment	8-Level				4-Level		8-Level	4-Level	8-Level		
Life (*2)	Approx. 52,000 h (Operating ambient temp: 25°C)	Approx. 50,000 h (Operating ambient temp: 25°C)		Approx. 41,000 h (Operating ambient temperature : 25°C)				Approx. 50,000 h (Operating ambient temperature : 25°C)				
Backlight	Life (Time for Display Intensity to Become 50% at Operating Ambient Temperature of 25°C)	Cold cathode fluorescent tube (replaceable) backlight shutoff detection function is included. Backlight off/screen saving time can be set.										
		Approx. 50,000 h or longer			Approx. 40,000 h or longer					Approx. 75,000 h or longer	Approx. 58,000 h or longer	
Touch Panel	Number of Touch Keys	3,072 objects/screen (48 lines 64 columns)	1,900 objects/screen (Matrix structure of 38 lines 50 columns)		1,200 objects/screen (Matrix structure of 30 lines 40 columns)				300 objects/screen (Matrix structure of 15 lines 20 columns)			
	Key Size (Per Key)	Minimum 16 x 16 dots	Minimum 16 x 16 dots (16 x 8 dots for the last line only)		Minimum 16 x 16 dots							
	Number of Simultaneous Touch Points	Simultaneous presses not allowed (Only 1 point can be touched)		Maximum of 2 objects								
	Life	1 million times or more (operating force 0.98N max.)										
Human Sensor	Detection Length	1 (39.37) [m](inch)		—								
	Detection Range	Left, Right, Top, Bottom: 70°		—								
	Detection Delay Time	0 to 4s		—								
Memory (*3)	Internal Memory	Built-in flash memory 9Mbytes (for storing project data and OS)				Built-in flash memory 5Mbytes (for storing project data and OS)	Built-in flash memory 9Mbytes (for storing project data and OS)	Built-in flash memory 5Mbytes (for storing project data and OS)	Built-in flash memory 9Mbytes (for storing project data and OS)			
	Life (Number of Writings)	100,000 times										
Battery		GT15-BAT lithium battery (Option)										
	Backed Up Data	Clock data and maintenance time notification data										
	Life	Approx. 5 years (Operating ambient temperature of 25°C)										
Internal Interface	RS-232	RS-232, 1ch; Transmission speed : 115,200/57,600/38,400/19,200/9,600/4,800 bps; Connector shape : D-sub 9-pin (Male); Application: For communicating with a controller or connecting a personal computer (Project data upload/download, OS installation, transparent function)										
	USB	USB (Full Speed 12Mbps), 1ch; Connector shape : Mini-B; Application : PC communication (screen data upload/download, OS installation and FA transparent function)										
	CF Card	Compact flash slot, 1ch; Connector shape : TYPE I; Application : Data transfer, data storage										
	Optional Function Board	For option function board mounting, 1ch										
	High-Resolution Graphic Board	For multi-color display board mounting, 1ch										
Extension Unit	For communication unit/option unit mounting, 2ch							For communication unit/option unit mounting, 1ch				
Buzzer Output	Single tone (tone length adjustable)											
Environmental Resistant Protection Structure	Outside the enclosure: IP67 (*5); Inside the enclosure: IP2X											
External Dimensions (Excluding USB IP67 Rated Port Cover) (W x H x D) mm	397 (15.6) x 296 (11.7) x 61 (2.40)	316 (12.44) x 242 (9.53) x 52 (2.05)	303 (11.93) x 214 (8.43) x 49 (1.93)				241(9.49) x 90 (7.48) x 52 (2.05)		167 (6.6)x 135 (5.3) x 56 (2.2)			
Panel Cut Dimensions (W x H) mm	383.5 (15.1) x 282.5 (11.1)	302 (11.89) x 228 (8.98)	289 (11.38) x 200 (7.87)				227 (8.94) x 176 (6.93)		153 (6.0) x 121 (4.8)			
Weight (kg)	4.9kg	2.8 kg	GT1575V: 2.3 kg GT1575: 2.4kg	2.3kg			1.9 kg		1.1kg			
Compat. S/W Package	Drawing Software	2.17T or later	2.32J or later	GT1575V: 2.32J or later	2.04E or later	GT1575-STBA: 2.04E or later GT1575-STBD: 2.17T or later	GT1575-VTBA: 2.04E or later GT1575-VTBD: 2.17T or later	GT1565-VTBA: 2.04E or later GT1565-VTBD: 2.17T or later	GT1565-VTBD: 2.17T or later	2.3G or later		

Notes:

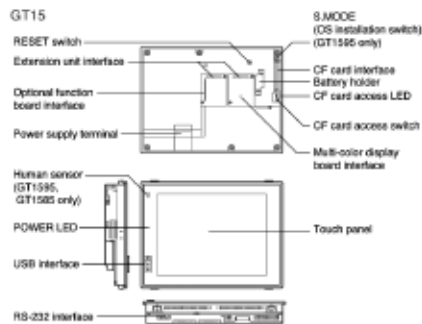
- 65,536 colors when multi-color display board is installed. 2. Using the GOT screen save / backlight OFF functions prevent screen burn-in and extends the backlight life. 3. Analog resistance film type screen. When 2 points on the screen are touched simultaneously, if a switch is located in the middle of the 2 points then the switch will be activated. Therefore, avoid touching 2 points on the screen simultaneously. 4. The internal memory is a ROM that permits new data overwriting without having to delete the existing data. 5. Conforms to the IP67 (JEM1030) standard when the USB port cover is installed. (The USB interface conforms to IP2X (JEM1030) when a USB cable is connected.) However, this does not guarantee protection in all user environments. On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear. Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero. Note that the existence of bright and black dots is a standard characteristic of LCD screens, and it does not mean that the products are defective or damaged.

GT11 Performance Specifications

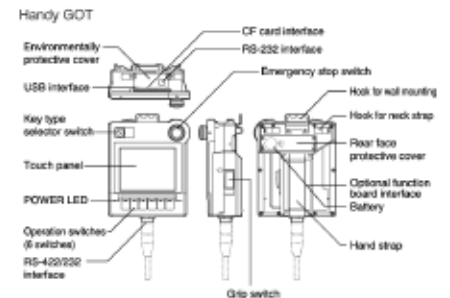
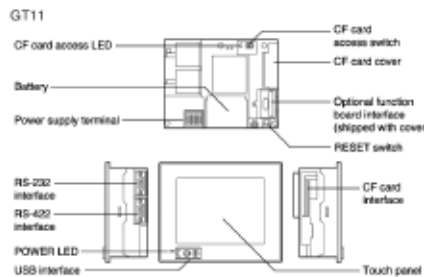
Item		Specifications			
		GT1155-QSBD	GT1150-QLBD	GT1155HS-QSBD	GT1150HS-QLBD
Display	Type	STN color display	STN monochrome (black/white) display	STN color display	STN monochrome (black/white) display
	Screen Size	5.7"			
	Resolution	QVGA: 320 x 240 [dot]			
	Display Size (W x H) mm	115 x 86			
	Number of Display Characters	16-dot standard font: 20 chars. x 15 lines (two bytes); 12-dot standard font: 26 chars. x 20 lines (two bytes)			
	Display Color	256 colors	16-tone gray scales	256 colors	16-tone gray scales
	View Angle	Right/left: 50° Up: 50°, Down: 60°	Right/left: 45° Up: 20°, Down: 40°	Right/left: 50° Up: 50°, Down: 60°	Right/left: 50° Up: 50°, Down: 60°
	Contrast Adjustment	16-step adjustment			
	Intensity	350 [cd/m ²]	220 [cd/m ²]	350 [cd/m ²]	220 [cd/m ²]
	Life	8-step adjustment			
Backlight	Backlight	Cold cathode fluorescent tube (not replaceable) with backlight OFF detection function, and selectable backlight OFF / screen save time			
	Life (*1)	Approx. 50,000 hours (operating ambient temperature: 25°C)			
Touch Panel	Number of Touch Keys	300 keys per screen (15 lines x 20 columns matrix resistive type)			
	Key Size	Min. 16 x 16 [dots] (per key)			
	No. of Simultaneous Touch Points	Max. 2 points			
	Life (Hours)	1,000,000 or more operations (pressing force of 0.98N or less)			
Memory (*2)	C Drive	3 MB built-in flash memory (for saving project data, extended function OS/optional function OS)			
	Life (Number of Writings)	100,000 writings			
Battery	Battery Type	GT11-50BAT type lithium battery			
	Backed-Up Data	Clock and alarm history and recipe data			
	Life	Approx. 5 years (operating ambient temperature: 25°C)			
Built-In Interface	RS-422	RS-422, 1ch, Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (female) Application: Communication with connected devices.		—	
	RS-422/232	—		RS-422/232, 2ch (select 1ch when using) Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps; Connector shape: Round 32-pin (male) Application: Communication with connected devices.	
	RS-232	RS-232, 1ch, Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (male) Application: Communication with connected devices, connection to personal computer (for project data uploads/downloads, OS installation, FA transparent function)		RS-232, 1ch, Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: Mini-DIN 6-pin (female) Application: Communication with connected devices, connection to personal computer (for project data uploads/downloads, OS installation, FA transparent function)	
	USB	USB (full speed 12Mbps), device, 1ch; Connector shape: Mini-B Application: communication with personal computer (for project data uploads & downloads, OS installation, FA transparent function)			
	CF Card	Compact Flash slot: 1ch; Connector shape: TYPE I; Application: For data transmission and data saving			
	Optional Function Board	1ch for optional function board installation			
Buzzer Output	Single tone (tone length is adjustable)				
Environmentally Protective Construction	JEM1030 Front face: IP67f (*3) Inside panel: IP2X		JEM1030 IP65f (*4)		
External Dimensions (Without USB Port Cover) (W x H x D) mm	164 x 135 x 56		176 x 220 x 93		
Panel Cut Dimensions (W x H) mm	153 x 121		—		
Weight (kg)	0.7 (excluding the mounting bracket)		1.0 (Main unit only)		
Supported Software Package	Drawing Software	GT Designer2 Version, 2.x or later			
	Simulator Function	GT Simulator2 Version, 2.x or later			

***Notes:**

- Using the GOT screen save / backlight OFF functions prevents screen burn-in and extends the backlight life.
- The internal memory is a ROM that permits new data overwriting without having to delete the existing data.
- Conforms to the IP67f (JEM1030) standard when the USB port cover is installed. (The USB interface conforms to IP2X (JEM1030) when a USB cable is connected.) However, this does not guarantee protection in all user environments.
- Does not apply when IP65f-rated interface covers on top and rear face are removed. On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear. Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero. Note that the existence of bright and black dots is a standard characteristic of LCD screens, and it does not mean that the products are defective or damaged.

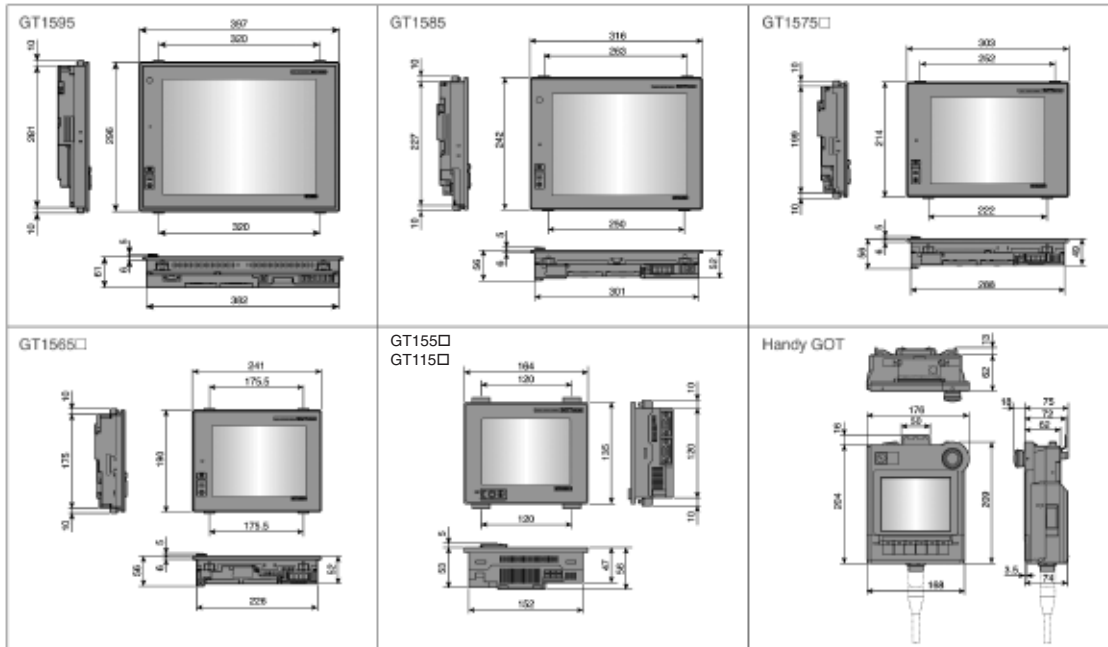


* This illustration shows the GT1155-KTBA.



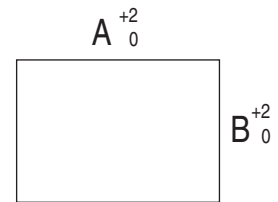
External Dimensions

units of measure: mm



Panel Cutout

Size	GOT Terminal	A [mm], (in)	B [mm], (in)
15" type	GT1595	383.5(15.10) (+2(0.08),0(0))	282.5(11.12) (+2(0.08),0(0))
12.1" type	GT1585	302(11.89) (+2(0.08),0(0))	228(8.98) (+2(0.08),0(0))
10.4" type	GT1575□	289(11.38) (+2(0.08),0(0))	200(7.87) (+2(0.08),0(0))
8.4" type	GT1565□	227(8.94) (+2(0.08),0(0))	176(6.93) (+2(0.08),0(0))
5.7" type	GT1155	153(6.02) (+2(0.08),0(0))	121(5) (+2(0.08),0(0))
	GT1150		



Bus Connection Cable

Cable Model Name	Cable Length (L)	External Dimensions
GT15-QC□B	0.6, 1.2, 3, 5, 10 m	Fig. 1
GT15-QC□BS	15, 20, 25, 30, 35 m	Fig. 1
GT15-C□NB	1.2, 3, 5 m	Fig. 2
GT15-AC□B	0.6, 1.2, 3, 5 m	Fig. 3
GT15-A370C□B-S1	1.2, 2.5 m	Fig. 4
GT15-A370C□B	1.2, 2.5 m	Fig. 5
GT15-A1SC□B	0.7, 1.2, 3, 5 m	Fig. 6
GT15-A1SC□NB	0.45, 0.7, 3, 5 m	Fig. 7
GT15-C□EXSS-1*1	10.6, 20.6, 30.6 m	Fig. 8 + Fig. 9
GT15-EXCNB	0.5 m	Fig. 8
GT15-C□BS	0.7, 1.2, 3, 5, 10, 20, 30 m	Fig. 9
GT15-J2C10B	1 m	Fig. 10

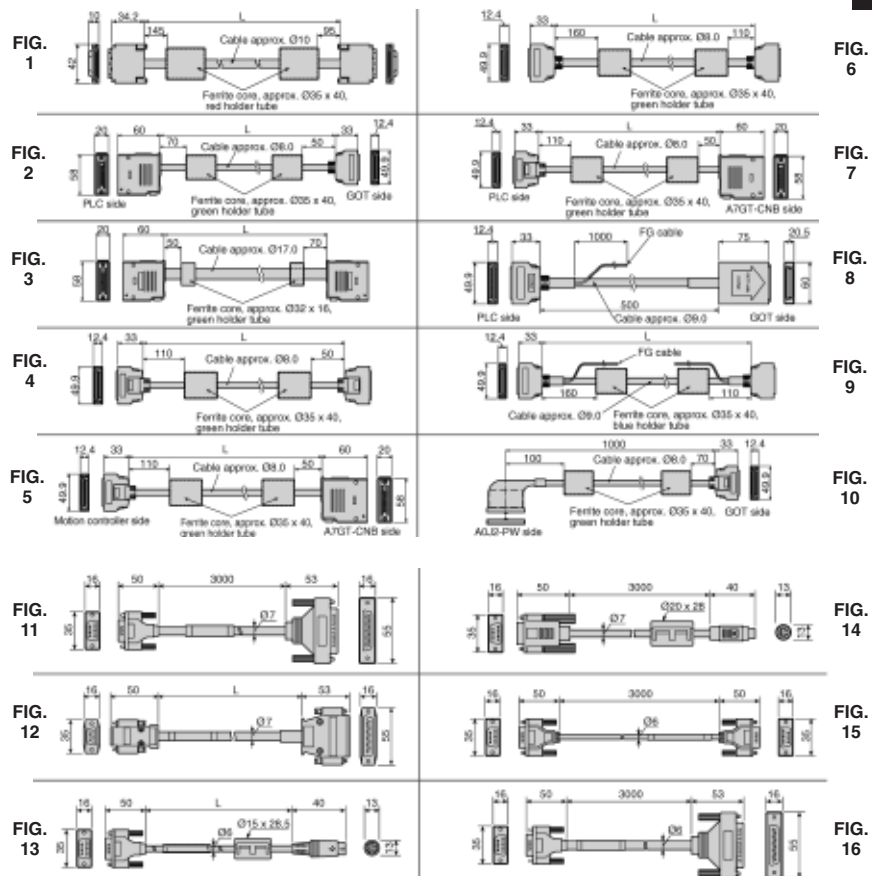


RS-422 Cable

Cable Model Name	Cable Length (L)	External Dimensions
GT01-C30R4-25P	3 m	Fig. 11
GT01-C□R4-25P	10, 20, 30 m	Fig. 12
GT01-C□R4-8P	1, 3, 10, 20, 30 m	Fig. 13

RS-232 Cable

Cable Model Name	Cable Length (L)	External Dimensions
GT01-C30R2-6P	3 m	Fig. 14
GT01-C30R2-9S	3 m	Fig. 15
GT01-C30R2-25P	3 m	Fig. 16





F900GOT Family of Graphic Operator Terminals

The F900GOT Series of Graphical Operator Terminals is a complete line of compact, low cost, high performance interface panels ranging from wide-display touch-screen to basic keypad models. F900GOT Family offers models with color or monochrome displays (STN & TFT), 2.6 to 7.0" screen size, and panel mount or handheld installation. F900GOTs support connection to Mitsubishi Electric sequence controllers, several other controller brands, and to other products including motion controllers, barcode readers and printers. All models configure with one easy to use software title.

F900GOT Hardware Features Include:

- Compact design for today's compressed panel and installation space requirements
- Ultra-wide viewing angles combined with crystal clear display
- 24VDC power supply (5VDC available in F920)
- Embedded dual serial ports allowing flexible connection methods without adding cost
- Serial networking of terminals to a single target device (up to 4 terminals)
- Upgradeable OS
- Programmable function keys (keypad models only)
- IP65F environmental ratings
- Class 1, Division 2, Group A, B, C and D environmental ratings

F900GOT Terminal Features:

- Supports recipe management for easy manipulation of complex data
- Alarm management and messaging features
- Supports time switching and scheduling of events
- Supports trending and data sampling
- Supports both local and global function operations (keypad models only)
- 16 Levels of password protection (user and system levels)
- Supports graphics, text and numerical data

Advanced F900GOT Maintenance Features:

(Supported by Mitsubishi FX Controllers only):

- List Editor – Ability to read/write control logic of FX controllers without a PC
- Buffer Memory Monitor – Direct access to FX2N/2NC Special Function Modules (SFM) and Buffer Memory (BFM) data locations
- Controller Diagnostics – FX controller errors are displayed
- Transparent Mode – Simultaneous serial communication of both HMI and Mitsubishi controller from a PC (transparent mode is supported by all Mitsubishi controllers)
- Other embedded system menus and diagnostics – access to advanced maintenance screens that require no user program development (available only for Mitsubishi controllers)

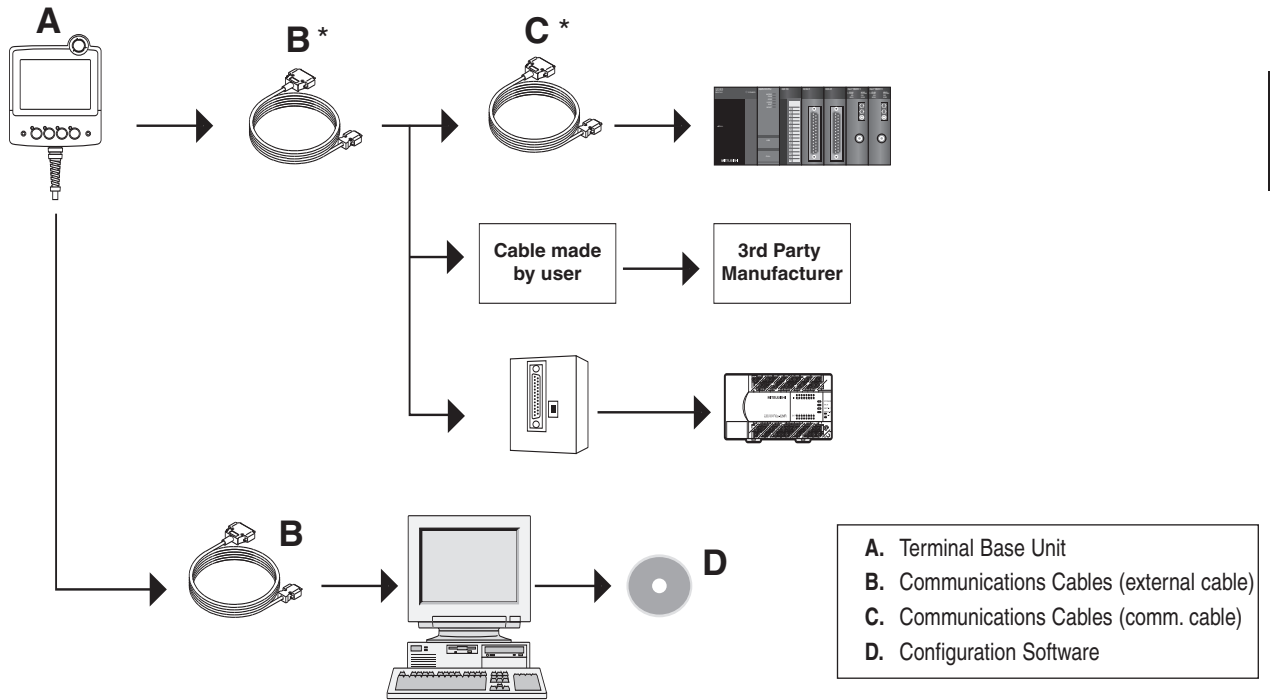
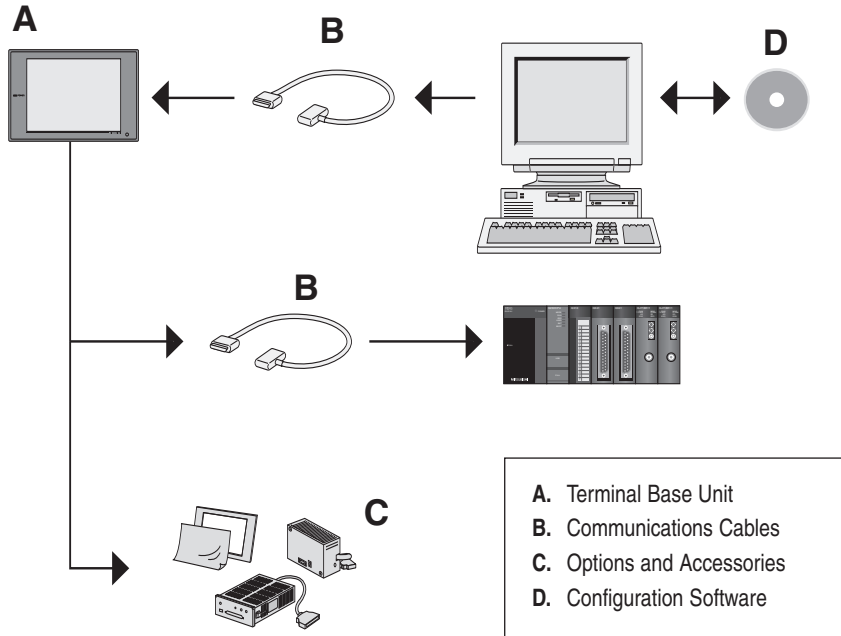
F900GOT Pendant Terminal Features:

- Hard wired redundant or single contact e-stop and function keys available
- Programmable 3 position grip switch or operator grip switch available
- Programmable LEDs
- Built-in communication interface
- IP54F environmental rating
- Class 1, Division 2, Group A, B, C and D environmental ratings

Manuals

Model Number	Description	Contents	Incl.with Product
JY992D86401	FX-10DM-E User's Manual	Introduction and Overview, Specifications, Installation and Maintenance	Yes
JY997D02201	F920GOT-BBD5-K-E Installation Manual	Introduction and Overview Specifications Installation Maintenance	Yes
JY992D95701	F930GOT Installation Manual		Yes
JY997D02501	F930GOT-BBD-K-E Installation Manual		Yes
JY992D94201	F940GOT Installation Manual		Yes
JY992D93901	F940WGOT Installation Manual		Yes
JY992D86901	F940 HANDY GOT Hardware Manual		Yes
JY992D99901	F940 HANDY GOT (RH model) Hardware Manual		Yes
JY992D94701	GOT-F900 Series Operation Manual		Introduction, General specifications Operation, Features and Functions Descriptions
JY992D94801	GOT-F900 Series Graphic Operation Terminal Hardware Manual (connection)	Introduction and Overview, Installation and Connections	No (purchase separately)
JY992D68301	FX-PCS-DU/WIN-E Operation Manual	Introduction and Installation and Requirements Features and Functions Descriptions	Yes, with s/w title
SH(NA)080250	GT Works2/GT Designer2 Operating Manual (Startup – Introductory Manual)	Basic Software Installation Information	Yes, with s/w title
SH(NA)080251	GT Works2/GT Designer2 Operating Manual (Reference Manual)	Programming Manual — Detailed information/ instruction for Objects, Features and Functions.	Yes, with s/w title
SH(NA)080278	GT Works2/GT Designer2 Operating Manual	Basic Software Information — understanding dialog box, creating new projects	Yes, with s/w title

Key to a Successful F900GOT Configuration



Note: All Pendant/Handy terminals require 3 components for every system:

1. Pendant Terminal: Base Unit
2. External Cable: This cable has a Grommet and attaches to the terminal
3. Relay Cable: This is a communication Cable that connects between the External Cable and connected device.

Note: When configuring Pendant systems, make sure that correct cables are specified as these terminals require specialized cables that are not compatible across two versions (H vs. RH). H type Pendant Systems require correct cables from section B1 and C1. RH Pendant Systems require correct cables from section B2 and C2 from chart on page 433.

* See page 433 for correct cable system. B1 + B2 or C1 + C2.

A. F900GOT Terminal Base Units

Product	Model Number	Compliance	Specifications
Text Terminal	FX-10DM-E	UL • cUL	2 line, 16 character backlit LCD display, 5 VDC powered
F920GOT	F920GOT-BBD5-K-E	CE • UL • cUL	128 x 64 LCD display, 2 color backlight (white/red), keypad/function keys, 5 VDC powered, built-in (1) RS232/422, 128Kb flash memory
	F920GOT-BBD-K-E	CE • UL • cUL	128 x 64 LCD display, 2 color backlight (white/red), keypad/function keys, 24VDC powered, built-in RS232/422, 128Kb flash memory
F930GOT	F930GOT-BWD-E	UL • cUL	240 x 80 pixels, 2 color STN blue LCD (blue/white), 24 VDC powered, built-in (1) RS-422/(1) RS-232, 256 Kb Flash memory
	F933GOT-BWD	—	240 x 80 pixels, 2 color STN blue LCD (blue/white), 24 VDC powered, built-in (2) RS-232 interface, 256 Kb Flash memory
	F930GOT-BBD-K-E	UL • cUL	240 x 80 pixels, 2 color STN blue LCD (blue/white), keypad/function keys, 24 VDC powered, built-in (1) RS-422/(1) RS-232, 256Kb Flash memory
F940GOT Terminals	F940GOT-LWD-E	UL • cUL	320 x 240 pixels, 2 color STN monochrome (black/white) LCD, 24 VDC powered, built-in (1) RS-422/(1) RS-232, 512Kb Flash memory
	F940GOT-SWD-E	UL • cUL	320 x 240 pixels, 8 color STN LCD, 24 VDC powered, built-in (1) RS-422/ (1) RS-232, 512kb Flash memory
	F943GOT-LWD	—	320 x 240 pixels, 2 color STN monochrome (black/white) LCD, 24 VDC powered, built-in (2) RS-232, 512Kb Flash memory
	F943GOT-SWD	—	320 x 240 pixels, 8 color STN LCD, 24 VDC powered, built-in (2) RS-232, 512kb Flash memory
Pendant/ Hand Held Terminals	F940WGOT-TWD-E	UL • cUL	430 x 234 pixels, 7" wide, 256 colors TFT LCD, 24 VDC powered, built-in (2) RS-232 / (1) RS-422, 1Mb Flash memory
	F940GOT-LBD-H-E	UL • cUL	320 x 240 pixels, hand held pendant style, 2 color STN monochrome (black/white) LCD, 24 VDC powered. Built-in RS-422 communication interface, 512kb Flash memory.
	F940GOT-SBD-H-E	UL • cUL	320 x 240 pixels, hand held pendant style, 8 color STN LCD, 24 VDC powered, built-in RS-422 communication interface, 512Kb Flash memory
	F943GOT-LBD-H-E	UL • cUL	320 x 240 pixels, hand held pendant style, 2 color STN monochrome (black/white) LCD, 24 VDC powered, built-in RS-232 communication interface, 512 Kb Flash memory
	F943GOT-SBD-H-E	UL • cUL	320 x 240 pixels, hand held pendant style, 8 color STN LCD, 24 VDC powered, built-in RS-232 communication interface, 512 Kb Flash memory
	F940GOT-LBD-RH-E	UL • cUL	320 x 240 pixels, hand held pendant style, 2 color STN monochrome (blk/white) LCD, 24 VDC powered, 3 position grip switch, key lock, duel contact e-stop, built-in RS-422 communication interface, 512Kb Flash memory.
	F940GOT-SBD-RH-E	UL • cUL	320 x 240 pixels, hand held pendant style, 8 color STN LCD, 24 VDC powered, 3 position grip switch, key lock, duel contact e-stop, built-in RS-422 communication interface, 512Kb Flash memory
F943GOT-LBD-RH-E	UL • cUL	320 x 240 pixels, hand held pendant style, 2 color STN monochrome (blk/white) LCD, 24 VDC powered, 3 position grip switch, key lock, duel contact e-stop, built-in RS-232 communication interface, 512Kb Flash memory	
F943GOT-SBD-RH-E	UL • cUL	320 x 240 pixels, hand held pendant style, 8 color STN LCD, 24 VDC powered, 3 position grip switch, key lock, duel contact e-stop, built-in RS-232 communication interface, 512Kb Flash memory	

Note: All Pendant/Handy terminals require 3 components for every system:

1. Pendant Terminal: Base unit.
2. External Cable: This cable has a grommet and attaches to the terminal.
3. Relay cable: This is a communication cable that connects between the external cable and connected device.

Communications Interface

The F900GOT Series has built-in communication ports, with no optional units required.

Terminal	Communication Type	Cable	Remarks
F940GOT, F940WGOT, F930GOT	MELSEC Front port mini-din	RS-422 FX-50DU-CAB0-□□	Refer to cable section
	MELSEC Front port 25 pin	RS-422 FX-40DU-CAB-□□	Refer to cable section
	Omron	RS-422 Cust. Supplied	Refer to manual for RS-422 specs
	Fuji Electric	RS-422 Cust. Supplied	Refer to manual for RS-422 specs
	Allen Bradley Connection	RS-232 DH-485	Cust. Supplied Cust. Supplied
F940GOT-H Pendant Type	Front port mini-din	RS-422 F9GT-HCAB-□M + F9GT-HCAB2-150	Refer to cable section
	Front port 25 pin	RS-422 F9GT-HCAB-□M + F9GT-HCAB2-150	Refer to cable section
	Omron Front port mini-din	RS-422 F9X-50DU-CAB0-□□	F9GT-HCAB1-□M Refer to cable section
FX-10DM-E	Front port 25 pin	RS-422 FX20P-CAB	Refer to cable section
	Front port mini-din	RS-422 FX-20P-CAB0	Refer to cable section

B. F900GOT Cables

Product	Model Number	Length	Specifications
Communication Cables for Standard Terminal	FX-50DU-CAB0	3 m	Cable to connect GOT to FX0, FX0S, FX0N, FX2NC (9 pin D-SUB male to 8 pin Mini-Din male)
	FX-50DU-CAB0-1M	1 m	Cable to connect GOT to FX0, FX0S, FX0N, FX2NC (9 pin D-SUB male to 8 pin Mini-Din male)
	FX-50DU-CAB0-10M	10 m	Cable to connect GOT to FX0, FX0S, FX0N, FX2NC (9 pin D-SUB male to 8 pin Mini-Din male)
	FX-50DU-CAB0-20M	20 m	Cable to connect GOT to FX0, FX0S, FX0N, FX2NC (9 pin D-SUB male to 8 pin Mini-Din male)
	FX-50DU-CAB0-30M	30 m	Cable to connect GOT to FX0, FX0S, FX0N, FX2NC (9 pin D-SUB male to 8 pin Mini-Din male)
	FX-50DU-CAB0L	3 m	Cable to connect GOT to FX0, FX0S, FX0N, FX2NC (9 pin D-SUB male to 8 pin Mini-Din male) 90 degree connector
	FX-40DU-CAB	3 m	Cable to connect GOT to FX1, FX2, FX2C and A Series (25 pin D-SUB male to 25 pin D-SUB male)
	FX-40DU-CAB-10M	10 m	Cable to connect GOT to FX1, FX2, FX2C and A Series (25 pin D-SUB male to 25 pin D-SUB male)
	FX-40DU-CABL	3 m	Cable to connect GOT to FX1, FX2, FX2C and A Series (25 pin D-SUB male to 25 pin D-SUB male) 90 degree connector
	FX-20P-CAB	3 m	Cable to connect FX-10DM-E to PLC (8 pin Mini-Din to 25 pin D-SUB)
FX-20P-CAB0	1.5 m	Cable to connect FX-10DM-E to PLC (8 pin Mini-Din to 8 pin Mini-Din)	
B1 External Cable for -H Pendants	F9GT-HCAB-3M	3 m	Communication cable from actual GOT pendant to additional PLC connecting cable. (Grommet : 25 pin)
	F9GT-HCAB-10M	10 m	Communication cable from actual GOT pendant to additional PLC connecting cable. (Grommet : 25 pin)
	F9GT-HCAB1-3M	3 m	Communication cable from F9GT-HCAB□-□M directly to power and an A(1S)J71-UC24 Computer Link module. (Grommet : Open leads)
	F9GT-HCAB1-10M	10 m	Communication cable from F9GT-HCAB□-□M, directly to power and an A(1S)J71-UC24 Computer Link module. (Grommet : Open leads)
C1 Communication Cable for -H Pendants	F9GT-HCAB2-150	1.5 m	Communication cable from F9GT-HCAB□-□M, to power and PLC front port (for FX0S, FX01S, FX1N, FX0N, FX2N,FX2NC) (25 pin : 8 pin)
	F9GT-HCAB3-150	1.5 m	Communication cable from F9GT-HCAB□-□M, to power PLC front port (for FX, A, Ans(H), QnAS(H) (25:25 pin)
	F9GT-HCAB5-150	1.5 m	Communication cable from F9GT-HCAB□-□M, to power PLC front port (for QCPU) (25 pin : 6 pin)
B2 External Cable for -RH Pendants	F9GT-RHCAB-3M	3 m	Communication cable from actual GOT (-RH) to additional PLC connecting cable (Grommet : 37 pin)
	F9GT-RHCAB-6M	6 m	Communication cable from actual GOT (-RH) to additional PLC connecting cable (Grommet : 37 pin)
	F9GT-RHCAB-10M	10 m	Communication cable from actual GOT (-RH) to additional PLC connecting cable (Grommet : 37 pin)
C2 Communication Cable for -RH Pendants	F9GT-RHCAB1-3M	3 m	Communication cable from F9GT-RHCAB□-□M to PLC or C24 module (Grommet: Open leads)
	F9GT-RHCAB1-10M	10 m	Communication cable from F9GT-RHCAB□-□M to PLC or C24 module (Grommet: Open leads)
	F9GT-RHCAB2-150	1.5 m	Communication cable from F9GT-RHCAB□-□M to PLC front port (FX1S/1N/2N/2NC) (37 pin : 8 pin)
	F9GT-RHCAB3-150	1.5 m	Communication cable from F9GT-RHCAB□-□M to PLC front port (A/FX Series) (37 pin : 25 pin)
	F9GT-RHCAB5-150	1.5 m	Communication cable from F9GT-RHCAB□-□M to PLC front port (QCPU) (37 pin : 6 pin)
Conversion Box	F9GT-HCNB	—	Communication cable adapter
Programming Cable	FX-232CAB-1	3 m	Programming cable from PC to GOT terminal (9 pin D-SUB female to 9 pin D-SUB female)

Note: When configuring Pendant systems, make sure that correct cables are specified as these terminals require specialized cables that are not compatible across two versions (H vs. RH). H type Pendant Systems require correct cables from section B1 and C1. RH Pendant Systems require correct cables from section B2 and C2 from chart above.

C. F900GOT Options and Accessories

Product	Model Number	Specification
Screen Data Transfer Board	F9GT-40FMB	Flash cassette (1 Mbytes) for transferring screen data to/from FGOT (F94□(W) only)
	F9GT-40UMB	Board for transferring user created screen data to / from the GOT to EPROM (F94□ only)
EPROM	FX-EPROM-4M	For storing user created screen data (Used together with F9GT-40UMB)
Backlight	F9GT-40LTS	Field replacement backlight (F94□ only)
	F9GT-30LTB	Field replacement backlight (F93□ only)
Lithium Replacement Battery	PM-20BL	Battery backup for alarm, sampling data and the like, 5 year life. (Battery is not required for screen data since it is kept in flash memory.) F940, F940W terminals only.
	FX2NC-32BL	Battery backup for alarm, sampling data and the like, 5 year life. (Battery is not required for screen data since it is kept in flash memory.) F930, F930-K, Handy terminals only.
Screen Protective Sheet	F9GT-30PSC	Transparent sheet for F930GOT (5 sheets / pack)
	F9GT-40PSC	Transparent sheet for F940GOT (5 sheets / pack)
	F9WGT-40PSC	Transparent sheet for F940WGOT (5 sheets / pack)
Conversion Box	F9GT-HCNB	Panel mount communications adapter (Quick Disconnect) interface. For Handy Redundant Terminals (RS-422 comms. only)

D. Screen Configuration Software and Programming Cable

Software Model Number	Programming Cable Model Number
GT-WORKS2-C1 FXDUWIN-C1	AC30R2-9SS or FX-232CAB-1

F940GOT Supported CPU and Communication Drivers

PLC — GOT Connection		Programming Software	F940WGOT	F940GOT	F930GOT	F940 Handy Series	
		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
Mitsubishi Electric	FX Series	✓	✓	✓	✓	✓	✓ (*1)
	A, QnA Series Motion Controller	✓	✓	✓	✓	✓	—
	Q Series Motion	✓	✓	✓	✓	✓	✓
	A Computer Link Unit: QnA, Q Serial Communication Unit	✓	✓	✓	✓	✓	✓
	FX Positioning (10/20GM)	✓	✓	✓	✓	✓	✓
	Inverter A500, E500, S500	✓	✓	✓	✓	✓	—
Other PLCs	General (Microcomputer)	✓	✓	✓	✓	✓	—
	Omron (SYSMAC C Series)	✓	✓	✓	✓	✓	✓
	Fuji Electric (FLEX-PC N Series)	✓	✓	✓	✓	✓	✓
	Matsushita Electric Works (FP, FPΣ Series)	✓	✓	✓	✓	✓	✓
	Yasukawa Electric (Machine Controller)	✓	✓	✓	✓	✓	✓
	Allen-Bradley (SLC500, MicroLogix Series)	✓	✓	✓	✓	—	✓
	Siemens AG (SISMATIC S7-200, S7-300 Series)	✓	✓	✓	✓	—	✓
	Bar Code Reader, Printer	✓	✓	✓	✓	✓ Enabled when RS-232C post is available	
	Connection of Two or More GOT Units	✓	✓	✓ Enabled when RS-232C port is available		✓ One unit can be connected	

Note:

1. The RS-232C adapter board is necessary.

F940GOT Supported CPU and Communication Drivers (cont.)

PLC — GOT Connection		F940 Handy Series (RH Model)		F930GOT with Keypad	F920GOT with Keypad	
		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
Mitsubishi Electric	FX Series	✓	✓ (*1)	✓	✓	✓
	A, QnA Series Motion Controller	✓	—	✓	—	—
	Q Series Motion	—	—	✓	✓	✓
	A Computer Link Unit: QnA, Q Serial Communication Unit	✓	✓	✓	—	✓
	FX Positioning (10/20GM)	✓	✓	✓	—	—
	Inverter A500, E500, S500	✓	—	✓	—	—
Other PLCs	General (Microcomputer)	✓	—	✓	—	✓
	Omron (SYSMAC C Series)	✓	✓	✓	—	✓
	Fuji Electric (FLEX-PC N Series)	✓	✓	✓	—	—
	Matsushita Electric Works (FP, FPΣ Series)	✓	✓	✓	—	✓
	Yasukawa Electric (Machine Controller)	✓	✓	✓	—	—
	Allen-Bradley (SLC500, MicroLogix Series)	—	—	✓	—	✓
	Siemens AG (SISMATIC S7-200, S7-300 Series)	—	—	✓	—	✓ Except S7-200
	Bar Code Reader, Printer	✓	✓	✓	—	—
Connection of Two or More GOT Units	✓	✓	✓	—	—	

Note:

1. The RS-232C adapter board is necessary.

Performance Specifications

Product Model Name (□ 0 or 3)		FX-10DM-E*	F940WGOT	F940GOT		F930GOT	
Item			F940WGOT-TWD-E	F94□GOT-SWD-E	F94□GOT-LWD-E	F930GOT-BWD-E	F930GOT-BBD-K-E
GENERAL SPECIFICATIONS							
Supply Voltage	5 VDC (+1%/-1%)	24 VDC +10, -15% (service power supply of PLC or separately prepared DC power supply)					
24 VDC Current Consumption (Backlight OFF)	220mA @ 5 VDC	650mA/24 VDC (*1) (400mA/24 VDC)	410mA/24 VDC	390mA/24 VDC	200mA/24 VDC	220mA/24 VDC	
Fuse	—	Built-in (non-replaceable)					
Allowable Momentary Power Failure Time	Operation continues after power failure for 5ms or less						
Built-in Lithium Battery	—	PM-20BL (life: Approx. 5 years)				FX2NC-32BL (life: Approx. 3 years)	
Ambient Temperature	0-50°C during operation -20°C ~ +70°C off time	0-50°C (*2)	0-50°C (*3)		0-50°C		
Ambient Humidity	35 to 85% RH (no condensation)						
Working Atmosphere	Free from corrosive gas and excessive dusts						
Vibration Resistance	Conforms to JIS B3501: 10-55 Hz (0.5 G max.) in 3 axial directions	In conformance to JIS B3502 and IEC 61131-2		Frequency	Acceleration	Amplitude	10 times in each of X, Y and Z directions (for 80 min)
Impact Resistance		In conformance to JIS B3502 and IEC 61131-2 (147 m/s ² ; 3 times in each of X, Y and Z directions)	With intermittent vibration	10-57Hz	—	0.075mm	
				57-150Hz	9.8m/s ²	—	
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	With continuous vibration	10-57Hz	—	0.035mm	
	57-150Hz			4.9m/s ²	—		
Withstand Voltage	500 VAC for 1 min (between all power terminals and ground terminal)						
Insulation Resistance	5 MΩ or more by 500 VDC megger (between all power terminals and ground terminal)						
Grounding	—	Class D grounding (if grounding is impossible, it can be omitted)					
Protective Rating	IP65F	Equivalent to IP65F (*6, *7)					
SCREEN DISPLAY SPECIFICATIONS							
Display Device	STN LCD (green back)	TFT color LCD	STN color LCD	STN monochrome LCD	STN monochrome LCD		
Number of Colors	N/A	256 colors	8 colors	2 colors (white and black)	2 colors (white and blue)		
Resolution	80 x 16 dots, 11.6 x 56.2 min.	480 x 234 dots 60 characters x 14 lines	320 x 240 dots 40 characters x 15 lines		240 x 80 dots 30 characters x 5 lines		
Dot Pitch mm (inches)	—	0.324 (0.013")	0.36 (0.014) x 0.36 (0.014)		0.47 (0.019) x 0.47 (0.019)		
Effective Display Size (Horizontal x Vertical) mm (inches)	2 lines x 16 characters	0.375 (0.015) Vertical 7" (6.7") diagonal 155 (6.12") x 87.8 (3.46")	6" (5.7") diagonal 115 (4.53) x 86 (3.39)		4" (4.4) diagonal 117 (4.61) x 42 (1.65)		
Range of View Angle	30° left and right; up and down 30°	—	Left and right: 50°, Upper: 45°, Lower: 60°	Left and right: 30°, Upper and Lower: 30°	Left and right: 30°, Upper: 20°, Lower: 30°		
Max. Number of Screens	Predefined menu screens	500 User screens 30 System screens	500 User screens No. 1001-1030 System screens allocated		500 User screens No. 1001-1030 System screens allocated		
Language Displayed on the User Screen	English	English, Western Europe (*4), Korean, Chinese (Simplified, Traditional), Japanese (Shift JIS level 1, 2)			English, Western Europe (*4), Korean, Japanese (Shift JIS level 1)		
Life	Display Element	Approx. 50,000 hours or more (working temperature: 25°C) Guarantee period is 1 year					
	Backlight (*5)	50,000 hours or more	40,000 hours or more		50,000 hours or more		
User Memory	Screen Data	EEPROM	Flash memory 1 MB (built-in)	Flash memory 512kB (built-in)		Flash memory 256kB (built-in)	
	Other Data	—	RAM (keeps recipe, alarm frequency, alarm history and sampling data)				
	ROM Transfer	—	(F9GT-40FMB only)	F9GT-40FMB		—	
Touch Keys	—	Max. 50 touch keys / screen, 30 x 12 matrix	Max. 50 touch keys / screen, 20 x 12 matrix		Max. 50 touch keys / screen, 15 x 4 matrix		
COMMUNICATIONS							
Serial Interface	RS-232C	—	9-pin D-Sub, male port, 2 channels, #4-40UNC 1/2 inch screw thread	9-pin D-Sub, male port, #4-40UNC 1/2 inch screw thread			
	RS-422	8-pin Mini-Din female	9-pin D-Sub, female port, M2.6 Metric screw thread				
External I/O Connection	Operation Switch	5 switches	—				
	Emergency Stop Switch	—					

— = Cannot Connect.

*Communication Note: FX-10DM-E only communicates with SuperMicro Controllers (FX Series)

Notes:

- When the power is turned ON a maximum current of 750 mA/24 VDC is consumed.
- 0 to 50°C when the screen is installed laterally. 0 to 40°C when the screen is installed vertically or horizontally.
- 0 to 40°C when the extension interface is used.

4. Western European languages: Italian, Dutch Swedish, Spanish, German, Portuguese, French.

5. The life of the backlight above indicates the value at 25°C.

6. This test result does not provide any guarantees that the product stands against use in all type of environment.

7. As regarding the front panel.

Performance Specifications (cont'd)

Product Model Name (□0 or 3)		F920GOT-K		Handy GOT		Handy RH-GOT																							
Item		F920GOT-BBD-K-E	F920-BBDS-K-E	F94□GOT-SBD-H-E	F94□GOT-LBD-H-E	F94□GOT-SBD-RH-E	F94□GOT-LBD-RH-E																						
GENERAL SPECIFICATIONS																													
Supply Voltage	24 VDC +10, -15% (service power supply of PLC or separately prepared DC power supply)	5 VDC ±5% (Supplied from PLC)		24 VDC +10, -15% (service power supply of PLC or separately prepared DC power supply)																									
24 VDC Current Consumption (Backlight OFF)	80mA/24 VDC (70mA/24 VDC)	220mA/5 VDC (180mA/5 VDC)		300mA/24 VDC (200mA/24 VDC)																									
Fuse	Built-in (non-replaceable)	—		Built-in (non-replaceable)																									
Allowable Momentary Power Failure Time	Operation continues after power failure for 5ms or less	—		Operation continues after power failure for 5ms or less																									
Built-in Lithium Battery	—			FX2NC-32BL (life: Approx. 3 years)																									
Ambient Temperature	0-50°C			0-40°C																									
Ambient Humidity	35 to 85%RH (no condensation)																												
Working Atmosphere	Free from corrosive gas and excessive dusts																												
Vibration Resistance	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="4" style="width: 20%;">In conformance to JIS B3502 and IEC 61131-2</td> <td rowspan="2" style="width: 10%;">With intermittent vibration</td> <td style="width: 10%;">Frequency</td> <td style="width: 10%;">Acceleration</td> <td style="width: 10%;">Amplitude</td> <td rowspan="4" style="width: 15%;">10 times in each of X, Y and Z directions (for 80 min)</td> </tr> <tr> <td>10-57Hz</td> <td>—</td> <td>0.075mm</td> </tr> <tr> <td rowspan="2">With continuous vibration</td> <td>57-150Hz</td> <td>9.8m/s²</td> <td>—</td> </tr> <tr> <td>10-57Hz</td> <td>—</td> <td>0.035mm</td> </tr> <tr> <td colspan="2"></td> <td>57-150Hz</td> <td>4.9m/s²</td> <td>—</td> <td></td> </tr> </table>							In conformance to JIS B3502 and IEC 61131-2	With intermittent vibration	Frequency	Acceleration	Amplitude	10 times in each of X, Y and Z directions (for 80 min)	10-57Hz	—	0.075mm	With continuous vibration	57-150Hz	9.8m/s ²	—	10-57Hz	—	0.035mm			57-150Hz	4.9m/s ²	—	
In conformance to JIS B3502 and IEC 61131-2	With intermittent vibration	Frequency	Acceleration	Amplitude	10 times in each of X, Y and Z directions (for 80 min)																								
		10-57Hz	—	0.075mm																									
	With continuous vibration	57-150Hz	9.8m/s ²	—																									
		10-57Hz	—	0.035mm																									
		57-150Hz	4.9m/s ²	—																									
Impact Resistance	In conformance to JIS B3502 and IEC 61131-2 (147 m/s ² , 3 times in each of X, Y and Z directions)																												
Noise Resistance	500V AC for 1 min (between all power terminals and ground terminal) (*6)																												
Withstand Voltage	500 VAC for 1 min (*3)			By noise simulator of 1,000 Vp-p in noise voltage, 1 μs in noise width and 30 to 100 Hz in frequency																									
Insulation Resistance	5MΩ or more by 500 VDC megger (*3)			5MΩ or more by 500V DC megger (between all power terminals and ground terminal) (*6)																									
Grounding	Class D grounding (if grounding is impossible, it can be omitted)	—		Class D grounding (if grounding is impossible, it can be omitted)																									
Protective Rating	Equivalent to IP65f (*4, *5)			Equivalent to IP54 (*4)																									
SCREEN DISPLAY SPECIFICATIONS																													
Display Device	STN monochrome LCD		STN color LCD	STN monochrome LCD	STN color LCD	STN monochrome LCD																							
Number of Colors	2 colors (white and blue)		8 colors	2 colors (white and black)	8 colors	2 colors (white and black)																							
Resolution	128 x 64 dots, 16 characters x 4 lines		320 x 240 dots, 40 characters x 15 lines		320 x 240 dots, 40 characters x 15 lines																								
Dot Pitch (Horizontal x Vertical)	0.47mm (0.019") x 0.47mm (0.019")		0.36mm (0.014") x 0.36mm (0.014")																										
Effective Display Size mm (inches)	3" (2.6") diagonal 60 (2.36) x 30 (1.18)		6" (5.7") diagonal 115 (4.53) x 86 (3.39)		6" (5.7") diagonal 115 (4.53) x 86 (3.39)																								
Range of View Angle	Left and right: 40°, Upper and lower: 40°		Left and right: 50°, Upper: 45°, lower: 60°		Left and right: 30°, Upper and lower: 30°																								
Max. Number of Screens	500 User screens No. 1001-1030 System screens allocated																												
Language Displayed on the User Screen	English, Western Europe (*1), Korean, Japanese(Shift JIS level 1, 2)			English, Western Europe (*1), Korean,Chinese(Simplified, Traditional), Japanese (Shift JIS level 1)																									
Life	Display Element	Approx. 50,000 hours or more (working temperature: 25°C) Guarantee period is 1 year																											
	Backlight (*2)	—		40,000 hours or more																									
User Memory	Screen Data	Flash memory 128kB (built-in)		Flash memory 512kB (built-in)		Flash memory 512kB (built-in)																							
	Other Data	EEPROM (keeps recipe, alarm frequency, alarm history)		RAM (keeps recipe, alarm frequency, alarm history and sampling data)																									
	ROM Transfer	—		—																									
Touch Keys	—		Max. 50 touch keys / screen, 20 x 12 matrix																										
COMMUNICATIONS																													
Serial Interface	RS-232C	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)																									
	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 Connection	Operation Switch	—		4 switches (4 contacts / common) External cable (with 25-pin D-Sub connector or untied)		4 switches (4 contacts / common) External cable (with 37-pin D-Sub connector)																							
	Emergency Stop Switch	—		1 switch (single contact) External cable (with 25-pin D-Sub connector or untied)		1 switch (dual contact) External cable (with 37-pin D-Sub connector)																							

Notes:

1. Italian, Dutch Swedish, Spanish, German, Portuguese, French.
2. The life of the backlight above indicates the value at 25°C.
3. Between all power terminals of the PLC and ground terminal.

4. This test result does not provide any guarantees that the product stands against use in all types of environment.
5. As regarding the front panel.

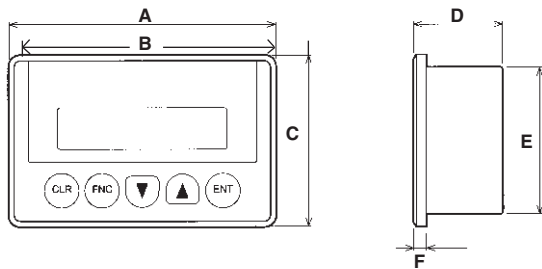
Dimensions

Specifications	External : mm (inch)					
Product	A	B	C	D	E	F
FX-10DM-E	96 (3.78)	86 (3.39)	62 (2.44)	32 (1.26)	53 (2.09)	4.5 (0.18)
F93□GOT-□	146 (5.75)	136 (5.35)	75 (2.95)	49 (1.93)	65 (2.56)	4 (0.16)
F94□GOT-□	162 (6.38)	152 (5.98)	130 (5.12)	57 (2.24)	120 (4.72)	5 (0.20)
F94□GOT-H-□	156 (6.14)	172 (6.77)	191 (7.52)	63.5 (2.5)	N/A	N/A
F940WGOT-E	215 (8.46)	205 (8.07)	133 (5.24)	70.5 (2.76)	123 (4.84)	5 (0.20)
F920GOT-K	109 (4.29)	99 (3.90)	134 (5.28)	35.5 (1.39)	118 (4.64)	5 (0.20)
F930GOT-K	168 (6.61)	154 (6.06)	183 (7.20)	37.5 (1.48)	169 (6.65)	6.4 (0.25)
F94□GOT-RH-□	156 (6.14)	N/A	191 (7.52)	69.5 (2.73)	N/A	N/A

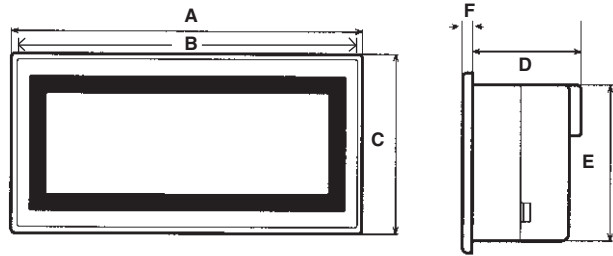
Specifications	Panel Cutout: mm (inch)
FX-10DM-E	87 +1/-0 X 54 +1/-0 (3.425 +0.04 / -0.00 X 2.125 +0.04 / -0.00)
F93□GOT-□	137 +1/-0 X 66 +1/-0 (5.393 +0.04 / -0.00 X 2.598 +0.04 / -0.00)
F94□GOT-□	153 +1/-0 X 121 +1/-0 (6.02 +0.04 / -0.00 X 4.76 +0.04 / -0.00)
F94□GOT-H-□	N/A
F940WGOT-E	206 +1/-0 X 124 +1/-0 (8.11 +0.04 / -0.00 X 4.88 +0.04 / -0.00)
F920GOT-K	92 +1/-0 X 119 +1/-0 (3.62 +0.04 / -0.00 X 4.69 +0.04 / -0.00)
F930GOT-K	155 +1/-0 X 170 +1/-0 (6.10 +0.04 / -0.00 X 6.69 +0.04 / -0.00)
F94□GOT-RH-□	N/A

Outline Dimensional Drawings

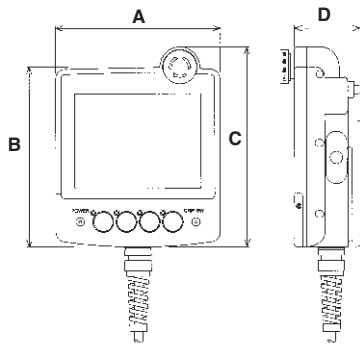
FX-10DM-E



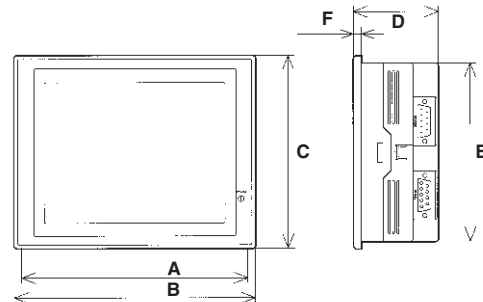
F930GOT



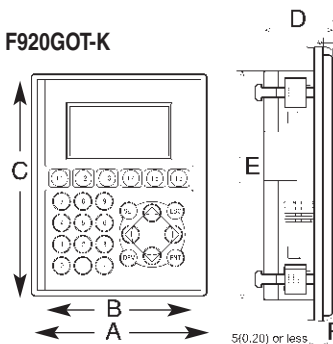
F940GOT-H & F940GOT-RH



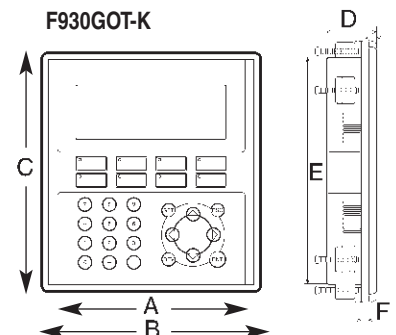
F940GOT-E & F940WGOT-E



F920GOT-K



F930GOT-K





E-Series Family of Human Machine Interfaces

E-Series is a family of powerful and flexible panel mount Human Machine Interfaces. This family of displays, offer a comprehensive line of state-of-the-art terminal displays ranging from the basic 2 line backlit LCD keypad to a highly advanced 15 inch TFT Touch screen. Engineered to fit a wide range of applications and budgets, one can easily select from a Text or Graphical model to solve a multitude of different challenges. Models are categorized as Text Based Keypads, Graphic Keypads, Graphic Touch screens and E1000 Keypad and Touch screens.

Standard E-Series Hardware Features Include:

- Compact Industrial Construction
- Built-in and Configurable Serial Ports (RS232/RS422/RS485) (*1)
- Available Expansion Option slots (*1)
- Real Time Clock
- Upgradeable Terminal Firmware and Communication Drivers
- Keypad Models feature
 - Numeric Keypad and Navigation Keys
 - Programmable Function Keys
 - Programmable Multicolored LEDs
 - Removable Text Strips (*1)

In addition to standard feature the E1000 platform adds:

- Ultra-Thin Display Panel Construction
- High Resolution TFT (Thin Film Transistor) Display Technology
- Industrial Brushed Cast Aluminum Finish
- Built-in 10/100MB Ethernet ports
- Dual Universal Serial Bus (USB) ports (Peripheral and Host Support)
- Dual Compact Flash Memory Slots (Internal/External)
- Upgradeable Onboard Compact Flash Memory

E-Series Terminal Features:

- Dual Driver (simultaneous communication with two devices)
- Multiple languages (Unicode Support)
- Alarm and Message Management
- Macro Functions (linked events to a single command)
- Time Channels/Scheduling
- 8 levels of Security protection (Device, Screen, System and Project levels)
- Trending and Data Sampling
- Web connectivity (Web Server, FTP, Email, HTML and Java Applets)
- Advanced Recipe Management
- Report Generation (Printing Functions)

In addition to these features the E1000 platform adds:

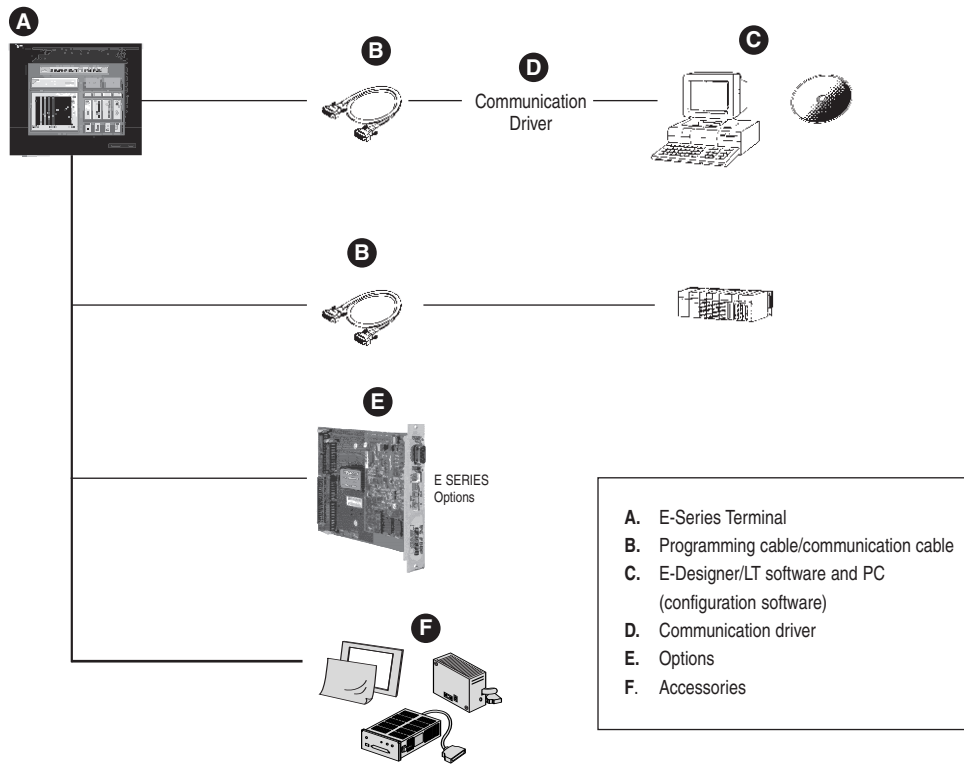
- Advanced Graphics display, Gradient shading and object rendering support
- Full support for Windows® fonts and color pallets (64K available colors)
- High-speed Application transfer via USB Device, serial, Ethernet or memory card
- Support for both USB Host and Device configuration (allowing easy integration for PC keyboards, mouse/trackballs, printers, etc.)

Note 1: Not available for all models.

Manuals

Model Number	Description	Contents	Included With Product	
MA00614	E-Series Installation Manual	Installation Instructions; Technical Specifications	Yes	
MA00552	E-Designer Manual	Software Manual; Programming; Technical Specifications	Yes, with s/w title	
MA00776	E1070 Installation Manual	Installation Instructions; Technical Specifications	No	
MA00777	E1071 Installation Manual		No	
MA00778	E1100 Installation Manual		No	
MA00779	E1101 Installation Manual		No	
MA00780	E1151 Installation Manual		No	
MA00818	E1041 Installation Manual		No	
	E1043 Installation Manual		No	
MA00815	E1061 Installation Manual		No	
	E1063 Installation Manual		No	
MA00816	E1032 Installation Manual		No	
MA00817	E1060 Installation Manual		No	
MA00759	E-Designer Reference Manual		Software Manual; Programming; Specifications	N/A

Note: Manuals are available electronically on www.meau.com.



- A. E-Series Terminal
- B. Programming cable/communication cable
- C. E-Designer/LT software and PC (configuration software)
- D. Communication driver
- E. Options
- F. Accessories

A. E-Series Terminals

Product	Model	Compliance	Specifications
E1000 Platform (Keypad and Touch Screen Models)	E1041	NEMA 4, UL 508, UL 1604	320 x 240, Color TFT, 3.5" Touch – 24VDC
	E1043	NEMA 4, UL 508, UL 1604	320 x 240, B/W STN, 3.5" Touch – 24VDC
	E1061	NEMA 4, UL 508, UL 1604	320 x 240, Color STN, 5.7" Touch – 24VDC
	E1063	NEMA 4, UL 508, UL 1604	320 x 240, B/W STN, 5.7" Touch – 24VDC
	E1032	NEMA 4, UL 508, UL 1604	240 x 64, B/W STN, Keypad – 24VDC
	E1060	NEMA 4, UL 508, UL 1604	320 x 240, Color STN, 5.7" Keypad- 24VDC
	E1070	NEMA 4, UL 508, UL 1604	640 x 480, 65K color TFT, 6.5" Keypad – 24VDC
	E1071	NEMA 4, UL 508, UL 1604	640 x 480, 65K color TFT, 6.5" Touch screen – 24VDC
	E1100	NEMA 4, UL 508, UL 1604	800 x 600, 65K color TFT, 10.4" Keypad – 24VDC
	E1101	NEMA 4, UL 508, UL 1604	800 x 600, 65K color TFT, 10.4" Touch screen – 24VDC
	E1151	NEMA 4, UL 508, UL 1604	1024 x 768, 65K color TFT, 15" Touch screen – 24VDC
Touch Screens	E910TD	NEMA 4, UL 1604, UL 1950	640 x 480, 256 color TFT, 10.4" – Touch screen – 24 VDC power
	E910T	NEMA 4, UL 1604, UL 1950	640 x 480, 256 color TFT, 10.4" – Touch screen – 100-240 VAC power
	E710	NEMA 4/4X, UL 508, UL 1604	320 x 240, 256 color LCD, 5.6" – 8 Function key touch screen – 24 VDC power
	E610	NEMA 4/4X, UL 508, UL 1604	320 x 240, B/W LCD touch screen display – 24 VDC power
	E615	NEMA 4/4X, UL 508, UL 1604	320 x 240, 256 color (1/4 VGA) LCD touch screen display – 24 VDC power
	E615T	NEMA 4/4X, UL 508, UL 1604	320 x 240, 256 color TFT touch screen display – 24 VDC power
	E410S	NEMA 4/4X, UL 508, UL 1604	320 x 240 B/W LCD touch screen display – 24 VDC power
Graphic Keypads	E900T	NEMA 4/4X, UL 508, UL 1604	640 x 480, 256 color TFT, 10.4" – 22 Function key display – 100-240 VAC power
	E900TD	NEMA 4/4X, UL 508, UL 1604	640 x 480, 256 color TFT, 10.4" – 22 Function key display – 24 VDC power
	E700	NEMA 4/4X, UL 508, UL 1604	320 x 240, 256 color LCD, 5.6" – 16 Function key display – 24 VDC power
	E600	NEMA 4/4X, UL 508, UL 1604	240 x 128, backlit LCD, 6" – 16 Function key display – 24 VDC power
	E300	NEMA 4/4X, UL 508, UL 1604	240 x 64, backlit LCD, 5.4" – 8 Function key display – 24 VDC power
Text Keypads	E200	NEMA 4/4X, UL 508, UL 1604	4 rows x 20 character, backlit LCD, 5 function key display – 24 VDC power
	E150ET	NEMA 4/4X, UL 508, UL 1604	2 rows x 20 character, backlit LCD, 6 function key display – 5 VDC power with built-in Ethernet (*1)
	E150	NEMA 4/4X, UL 508, UL 1604	2 rows x 20 character, backlit LCD, 6 function key display – 5 VDC power (*2)
	E100	NEMA 4/4X, UL 508, UL 1604	2 rows x 20 character, backlit LCD, 4 function key display – 5 VDC power (*2)
	E50	NEMA 4/4X, UL 508, UL 1604	2 rows x 16 character, backlit LCD, 4 function key display – 5 VDC power (*2)

Notes:
 1. Requires separate 5 VDC supply when using Ethernet function.
 2. We recommend using an external 5 VDC power supply with these terminals (CABDC24-5V)

B. Communication Cables

Cable Model No.	Manufacturer	Device	Device Side Interface	Device Side Connection	Terminal Side Interface	Terminal Side Connection	Notes	Lengths (m)	Standard E-Series	E1000
CAB1	Siemens	S5 Programming Port	RS-232	25 pin D-SUB – male	RS-232	9 pin D-SUB – female	Also required Siemens Converter (6ES5 734-1BD20)	0.5	✓	
CAB2	Allen Bradley	MicroLogix	RS-232	8 pin mini – male	RS-232	9 pin D-SUB – female		3	✓	
CAB3	Omron	C/CS1 Series	RS-232	9 pin D-SUB – male	RS-232	9 pin D-SUB – female		3	✓	
CAB4	GE Fanuc	Series 90	RS-422	15 pin D-SUB – male	RS-422	25 pin D-SUB – male		3	✓	
CAB5	Various	Connection to: Mitsubishi FX1n/2n-232BD, Siemens S7-300/400, AB SLC500/01/02/03, B&R 2000 Series, Steeplechase VLC	RS-232	9 pin D-SUB – female	RS-232	9 pin D-SUB – female	E-Terminal programming Cable, Connects to S7-300/400 via MPI port, Simatic 300/400 must use CP341 comms card, Simatic S5 must use CP525 comms card, SLC 500, SLC 501/02 need cable 1747-C13 and 1747-KE, SLC 503/04/05 cable 1747-KE is recommended	3	✓	
CAB6	Various	Connection to: AB ContoLogix, Simatic S7-300/400, B&R 2000 Series, Steeplechase VLC	RS-232	9 pin D-SUB – female	RS-422	25 pin D-SUB – male	RS232 to RS422 converter	3	✓	✓
CAB7	Siemens	Simatic S5	RS-422	15 pin D-SUB – male	RS-422	25 pin D-SUB – male		3	✓	✓
CAB8	Various	Various	RS-485	8 pin screw terminal	RS-422	25 pin D-SUB – male	RS422 to RS485 Converter	—	✓	✓
CAB9	Mitsubishi	FR-E/A & FR-S500 VFDs	RS-422	RJ45 connector	RS-422	25 pin D-SUB – male		3	✓	✓
CAB10	Allen Bradley	DH485	RS-485	RJ485	RS-422	25 pin D-SUB – male	RS422 to RS485 converter via RJ45 connector	3	✓	✓
CAB11	Siemens	S7 MPI	RS-232	9 pin D-SUB – male	RS-232 or RS-422	9 pin D-SUB – male	Network Adapter Simatic S7-300/400 via MPI port	1.2	✓	✓
CAB12	Various	Various	RS-232	9 pin D-SUB – female	RS-232	9 pin D-SUB – male	RS232 Tx to Rx crossover	—	✓	✓
CAB13	Mitsubishi	MR-J2	RS-422/485	20 pin 3M connector	RS-422	25 pin D-SUB – male		3, 5	✓	✓
CAB14	Aromat	FPO/M/2/2SH	RS-232	5 pin mini – male	RS-232	9 pin D-SUB – female		3	✓	
CAB15	Various	CANOpen Adapter	RS-422/485	5 pin screw terminal	RS-422	25 pin D-SUB – male		—	✓	✓
CAB15 KIT							Mounting H/W Kit	—	✓	✓
CAB16	Mitsubishi	Q Series	RS-232	6 pin mini	RS-232	9 pin D-SUB – female		1, 3, 5, 7, 10, 15	✓	
CAB17	Mitsubishi	Q Series	RS-232	6 pin mini	RS-422	25 pin D-SUB – male		3	✓	✓
CAB18	Mitsubishi	QnA/AFX	RS-422	25 pin D-SUB – male	RS-422	25 pin D-SUB – male		1, 5, 7, 10, 15	✓	✓
CAB19	Mitsubishi	FX1S/1N/2N/2NG/3U/3UC	RS-422	8 pin mini – male	RS-422	25 pin D-SUB – male		0.6, 1, 2, 3, 5, 7, 10, 15	✓	✓
CAB20	Siemens	S7-200	RS-232	9 pin D-SUB – male	RS-422	25 pin D-SUB – male		3	✓	✓
CAB21	E-Series	E-Keys	RS-232	9 pin D-SUB – male	RS-232	9 pin D-SUB – female		3	✓	
CAB23	E-Series	CANOpen Adapter Cable	RS-422	25 pin D-SUB – female	RS-422	25 pin D-SUB – male		1.5	✓	✓
CAB30	E-Series	Programming	RS-232	9 pin D-SUB – female	RS-232	9 pin D-SUB – female				✓
CAB31	Allen Bradley	Micrologix	RS-232	8 pin mini – male	RS-232	9 pin D-SUB – female				✓
CAB32	Omron	Host Link	RS-232	9 pin D-SUB – female	RS-232	9 pin D-SUB – female				✓
CAB33	Aromat	FPO/M/2/2SH	RS-232	5 pin mini – male	RS-232	9 pin D-SUB – female				✓
CAB34	Mitsubishi	Q-Series	RS-232	6 pin mini	RS-232	9 pin D-SUB – female		3, 5		✓
CAB35			USB	Standard/ "Type A" USB connector		RJ45 Ethernet Connector	USB to Ethernet Connector	1	✓	✓

Note: When using cables greater than 10 meters with text terminals (E50, E100, E150(ET)) you must use an external 5 VDC power supply to power the terminal.

C. Screen Configuration Software and Programming Cable

Model Number	Programming Cable Model Number	Description
E-DES-C1	CAB5 (232): standard E-Series Models, CAB30 (232): E1000 Models or CAB6 (422)	E-Designer programming software
E-DES-LT-C1		E-Designer Lite text terminals only (E50, E100, E150, E200)
E-DES-TR-C1		E-Designer Transfer

D. Communication Drivers

Manufacturer		Protocol
Mitsubishi Electric	MELSEC	A Series programming port , Ethernet or C24
		A Profibus DP
		FX programming port or 485ADP
		Q/QnA programming port Ethernet or C24
		FX(2N)-GM motion controller
		CC-Link via G4 module
	FREQUOL	FR-A, FR-E, FR-S, FR-V
	MELSERVO	S100, CP-S100
ABB		COMLI Master
Rockwell Automation/Allen Bradley		SLC DF1 or DH485 or Ethernet M-Logix DF1 or DH485
Bernecker + Rainer		Mininet
Control Techniques		ANSI
Danfoss		VLT FC Drive
Delta		Deta PLC Modbus ASCII
DVT/Delta Tau		ASCII
DEMO		Internal demo driver
DVT		ASCII Data TCP/IP
Festo/Beck		FST CI
GE		SNP-X
Hitachi		HCOM
IAI		Serial
IDEC		FA1:1, Exp, FA1:1, Micro Computer Link
Indramat		Ecodrive (ASCII)
Keyence		Serial ASCII
Klockner Moeller		SUCOM-A□□□
KOYO		DirectNet & K-Sequence
Matsuhita		MEWTOOL-Com Serial, Ethernet
MODICON		Modbus Master ASCII, RTU or TCP, Slave TCP or RTU
OMRON		Hostlink
PROSEC		Computer link
SIAI		SBUS
SEW		Movilink, Movidyn, Movitrac
Siemens		S5 3964, PG prot and Profibus DP
		S7 3964, MPI, PPI & Profibus DP
		S7-200m TI500
Steeplechase		Serial
Telemecanique		Uni-telway
Toshiba		Computer link
VT 100		VT 100
Yaskawa		JUSP. memobus master RTU

Notes:

- For the latest driver information visit www.e-terminals.com or www.meau.com
- Communication drives are continuously being developed for both platforms (standard and E1000). Please check availability before specifying.

E. Options

Card	Function
IFC-ET TP	Ethernet card, twisted pair media. Provides a 10 Mbits TCP/IP Ethernet connection to terminals. Enables terminal networking, project and systems transfers, as well as Internet access.
IFC-ET CX	Ethernet card, coaxial media. Provides a 10 Mbits TCP/IP Ethernet connection to terminals. Enables terminal networking, project and systems transfers, as well as Internet access.
IFC-PBDP	Connects E-Series terminal units to Profibus DP network as slave node.
E-Keys	Allows external connection of 16 additional Function Keys and LEDs.
IFC-MC	PCMCIA slot option unit. Requires AMD protocol PCMCIA memory card for application use. Adds memory to the E-Series for project expansion or backup.
PCMCIA CARD 4M	4 Mbyte PCMCIA memory card, using AMD protocol, used in conjunction with IFC-MC option.
PCMCIA CARD 8M	8 Mbyte PCMCIA memory card, using AMD protocol, used in conjunction with IFC-MC option.
IFC-PI	Parallel printer interface option card. E600 units and above only.
IFC-128/E	Connect up to 128 additional inputs to the terminal unit. Allows PLC Terminal to be minimized.
CABDC24-5V	24 VDC to 5 VDC converter
CAB15	CANOpen adapter
CAB15 Kit	CANOpen adapter mounting kit
EM Profibus DP	Connects E1000 to Profibus DP networks

F. Accessories

Item	Description
KEYBOARD PROTECTION SHEETS	
32.109.7235	E200 keypad protection sheet
32.109.7335	E300 keypad protection sheet
32.109.7745	E700 keypad protection sheet
32.109.7930	E900 keyboard protection
E1KTPS-1	E1070 touch protection sheet (single sheet)
E1KTPS-3	E1100 touch protection sheet (single sheet)
TOUCH SCREEN PROTECTION SHEETS (SINGLE PACKS)	
32.109.7636	E610 / E615 touch screen protection (single pack)
32.109.7740	E710 touch screen protection sheet (single sheet)
32.109.7955	E910 touch screen protection (single sheet)
E1KTPS1	E1070 Touch Protection Sheet (single sheet)
E1KTPS2	E1071 touch protection sheet (single sheet)
E1KTPS3	E1100 Touch Protection Sheet (single sheet)
E1KTPS4	E1101 touch protection sheet (single sheet)
E1KTPS5	E1151 touch protection sheet (single sheet)
TOUCH SCREEN PROTECTION SHEETS (MULTI-PACKS)	
E610/615PRO	E610 / E615 touch screen protection, (5 pack)
E710PRO	E710 touch screen protection sheets, (5 pack)
E910PRO	E910 protection sheet, (5 pack)
BACKLIGHTS	
32.109.7716	E615 E700 / 710 backlight 2440
32.109.7915	E900 / E910 CFL backlight
CONNECTORS	
32.109.7050	E50 connector adapter

Item	Description
ADAPTER BEZELS	
E1032-ADP-BEZ	Adapter Bezel, E300 TO E1032
E1060-ADP-BEZ	Adapter Bezel, E700 TO E1060
E1061/63-ADP-BEZ	Adapter Bezel, E610/E615 TO E1061/E1063
E1070-ADP-BEZ	Adapter Bezel, E700 TO E1060
E1071-ADP-BEZ	Adapter Bezel, E710 TO E1071
E1100-ADP-BEZ	Adapter Bezel, E900 TO E1100
E1101-ADP-BEZ	Adapter Bezel, E910 TO E1101
MISCELLANEOUS HARDWARE	
E61X-MTG-KIT	E610 / E615 mounting hardware kit
32.109.9040	MTA/E 24V power connector
32.109.7655	E Series RS-485 Connector
32.109.9090	IFC ribbon cable (fits old style CPU)
32.109.9092	IFC ribbon cable (fits new style CPU)

General Specifications

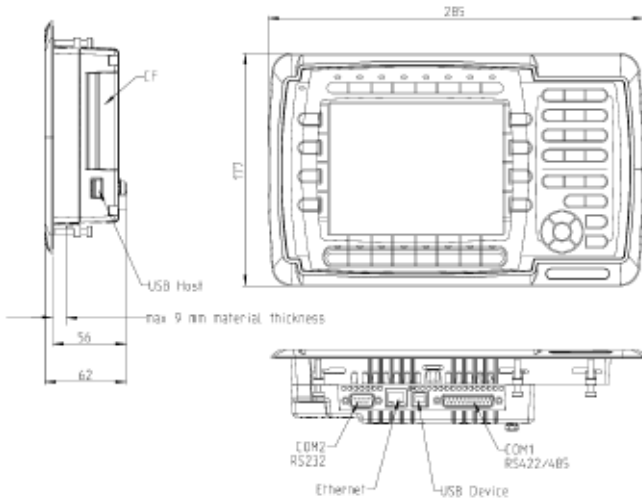
	E1071	E1070	E1101	E1100	E1151
Display Type	TFT	TFT	TFT	TFT	TFT
Display Size	6.4"	6.4"	10.4"	10.4"	15.0"
Resolution/Pixels	VGA 640 x 480	VGA 640 x 480	SVGA 800 x 600	SVGA 800 x 600	XVGA 1024 x 768
Colors	+65K	+65K	+65K	+65K	+65K
Input Type	Touch	Keyboard	Touch	Keyboard	Touch
LED / Function Keys	N/A	20/22	N/A	20/22	N/A
Alarm Function	7 – 11 groups				
RAM Memory	64 MB SDRAM				
FLASH Memory	12 MB				
Serial Ports	RS232 (9-pin DSUB), combined RS422/RS485 (25-pin DSUB)				
Ethernet	One 10/100 Mbit TP-port				
USB Host	One port for printer, keyboard, mouse, scanner. . .				
USB Device	One port for PC transfer				
Memory Cards	One external compact flash slot for file transfer, one internal compact flash slot for memory expansion 64 – 1024 MB				
Real-Time Clock	Battery backed				
Housing / Front Material	Cast aluminum				
Power Supply	±24 VDC (20 - 30 VDC)				
Weight (kg/lbs)	1.1 / 2.4	1.3 / 2.9	2.0 / 4.4	2.3 / 5.0	3.7 / 8.2
Dimensions mm	219 x 154 x 6	285 x 177 x 6	302 x 228 x 6	382 x 252 x 6	389 x 304 x 6
Max. Current Draw Min. (Max.)	400 mA (900 mA)	400 mA (900 mA)	500 mA (1.0 A)	500 mA (1.0 A)	1.2A (1.7A)
Ambient Temp V (H)	0 – 50°C (0 – 40°C)				

	E1041	E1043	E1061	E1063	E1032	E1060
Display Type	STN	TFT	STN	STN	STN	STN
Display Size	3.5"	3.5"	5.7"	5.7"	240 x 64	5.7"
Resolution/Pixels	QVGA 320 x 240	QVGA 320 x 240	QVGA 320 x 240	QVGA 320 x 240	240 x 64	QVGA 320 x 240
Colors	Monochrome (16 shades)	65K	Monochrome (16 shades)	65K	Monochrome (16 shades)	65K
Input Type	Touch	Touch	Touch	Touch	Keyboard	Keyboard
LED / Function Keys	N/A	N/A	N/A	N/A	16/8	16/16
Alarm Function	7 – 11 groups					
RAM Memory	64 MB SDRAM					
FLASH Memory	12 MB					
Serial Ports	RS232 (9-pin DSUB), combined RS422/RS485 (25-pin DSUB)					
Ethernet	One 10/100 Mbit TP-port					
USB Host	One port for printer, keyboard, mouse, scanner					
USB Device	No USB Device Port					
Memory Cards	No Compact Flash (CF) Card Slot					
Real-Time Clock	Battery backed					
Housing / Front Material	Cast aluminum					
Power Supply	±24 VDC (20 - 30 VDC)					
Weight (kg/lbs)	0.56 / 1.23		0.87 / 1.9			1.1 / 2.4
Dimensions mm	155.8 x 119 x 6		201 x 152 x 6		202 x 187 x 6	275 x 168 x 6
Max. Current Draw Min. (Max.)	150 mA (350 mA)		250 mA (450mA)		150 mA (350 mA)	300 mA (350 mA)
Ambient Temp V (H)	0 – 50°C (0 – 40°C)					

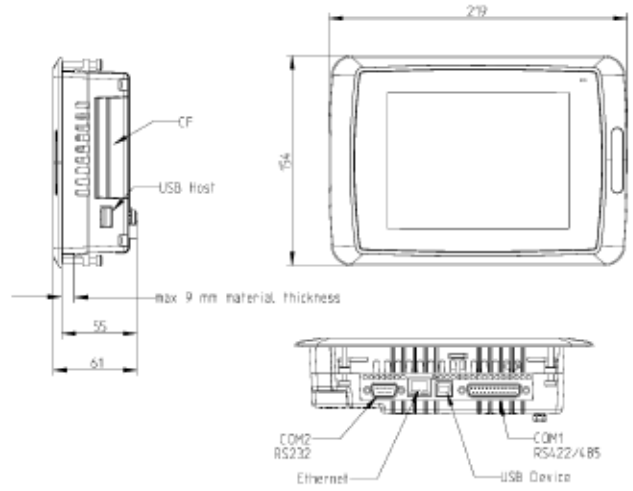
External Dimensions

Unit of Measure: mm

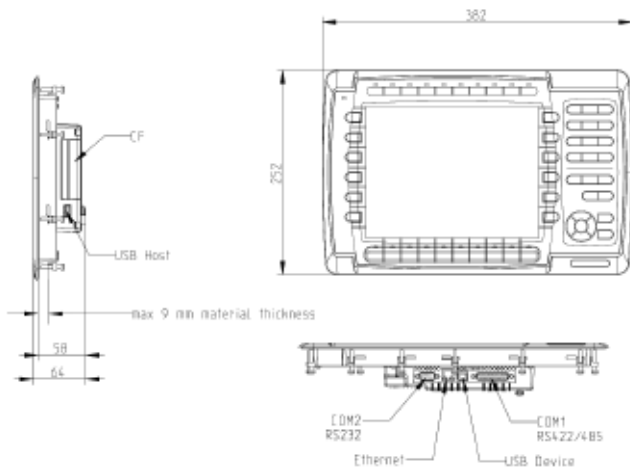
E1070



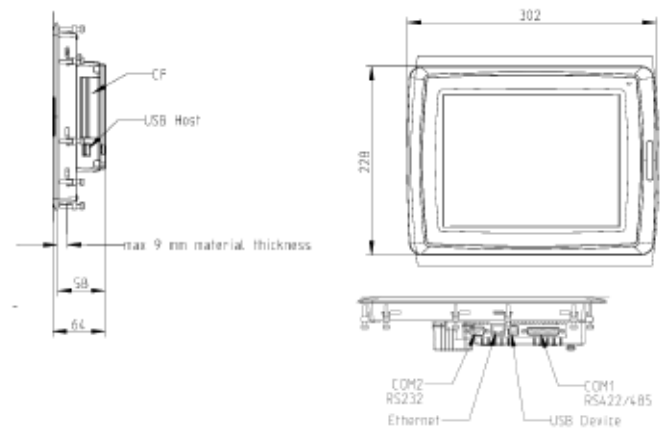
E1071



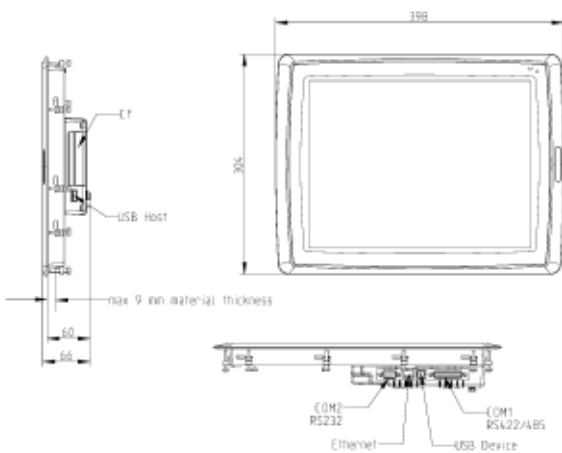
E1100



E1101

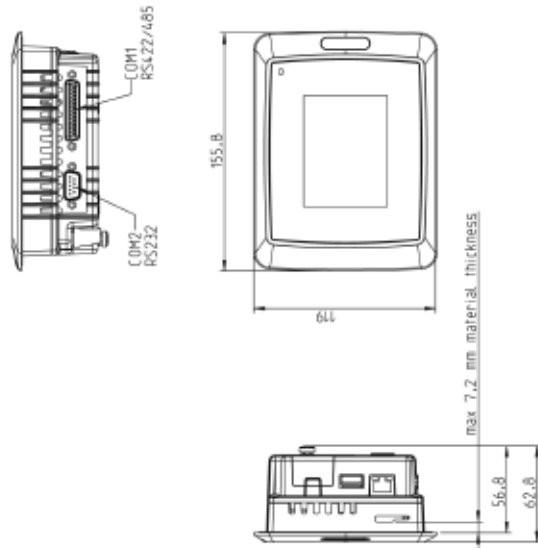


E1151

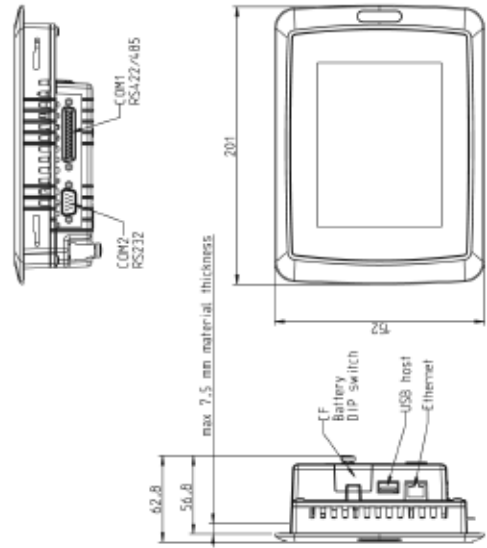


External Dimensions

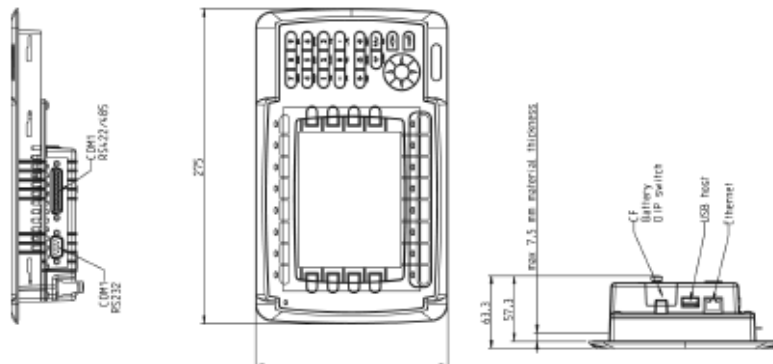
E1041/43



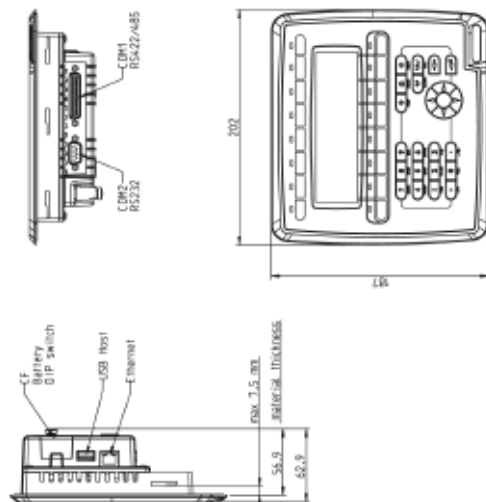
E1061/1063



E1060

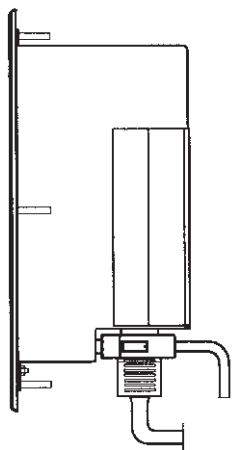


E1032

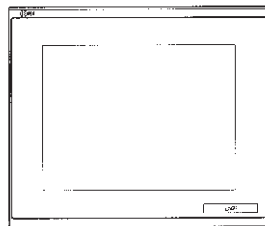


General Specifications

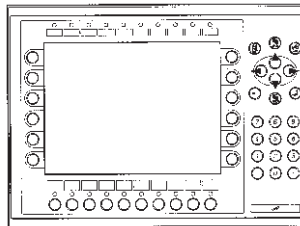
	E910T (D)	E900T (D)	E710	E700	E615	E615T	E610
Display Type	Backlit TFT color LCD touch-screen	Backlit TFT color LCD	Backlit touch LCD, color	Backlit LCD, color	Backlit LCD 256 colors, touch	Backlit LCD 256 colors, touch	Backlit LCD 16 Grayscales, touch
Screen Size (Diagonal)	10.4"/264mm	10.4"/264mm	5.6"/142mm	5.6"/142mm	5.6"/142mm	5.6"/142mm	5.6"/142mm
Display Format	Graphic + text	Graphic + text	Graphic + text	Graphic + text	Graphic + text	Graphic + text	Graphic + text
Display Size	640 x 480 pixels	640 x 480 pixels	320 x 240 pixels	320 x 240 pixels	320 x 240 pixels	320 x 240 pixels	320 x 240 pixels
Text Height	Variable	Variable	Variable	Variable	Variable	Variable	Variable
LED	N/A	20 (two colors)	8 (two colors)	14 (two colors)	N/A	N/A	N/A
Function Keys	N/A; use touch keys	22 (10 with own text)	8 (with own text)	16 (8 with own text)	N/A use touch keys	N/A use touch keys	N/A use touch keys
Buzzer	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Alarm Management	7-11 Groups	16 Groups	3-5 Groups	16 Groups	3-5 Groups	3-5 Groups	3-5 Groups
Time Channels	4	4	4	4	4	4	4
Real Time Clock	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Trend Graphs	Historic	Historic	Historic	Historic	Historic	Historic	Historic
Recipe Handler	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Report Printout	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Passwords	8 Levels	8 Levels	8 Levels	8 Levels	8 Levels	8 Levels	8 Levels
Transparent Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Application Memory	1600kB Flash (expand to 10MB)	2MB Flash (expand to 10MB)	400kB Flash (expand to 8.4MB)	400kB Flash (expand to 8.4MB)	400kB Flash	400kB Flash	400kB Flash
No. Expansion Card Locations	2	2	2	2	1	1	1
Dimensions W x H x D mm (in)	290 x 247 x 109 (11.4 x 9.7 x 4.2)	367 x 274 x 90 (14.4 x 10.8 x 3.5)	211.5 x 198 x 87 (8.3 x 7.8 x 3.4)	276 x 198 x 87 (10.9 x 7.8 x 3.4)	200 x 150 x 70 (7.9 x 5.9 x 2.8)	200 x 150 x 69 (7.9 x 5.9 x 2.7)	200 x 150 x 69 (7.9 x 5.9 x 2.7)
Weight kg (lbs)	3.3 (7.2)	3.5 (7.7)	1.7 (3.7)	1.7 (3.7)	1.5 (3.3)	1.5 (3.3)	1.5 (3.3)
Power Supply	100-240 VAC (24 VDC, 20-30 VDC)	100-240 VAC (24 VDC, 20-30 VDC)	+24 VDC, 20-30 V	+24 VDC, 20-30 V	+24 VDC, 20-30 V	+24 VDC, 20-30 V	+24 VDC, 20-30 V
Maximum Current Draw	350mA (1A)	350mA (1A)	600mA (24 V)	600mA (24 V)	450mA (24 V)	450mA (24 V)	450mA (24 V)
Ambient Temperature	0-50°C/32-122°F	0-50°C/32-122°F	0-50°C/32-122°F	0-50°C/32-122°F	0-50°C/32-122°F	+25°C	0-50°C/32-122°F



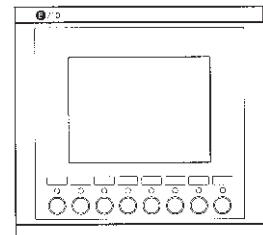
E910T (D)



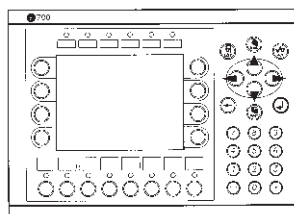
E900T (D)



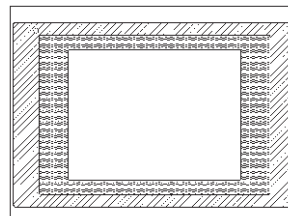
E710



E700



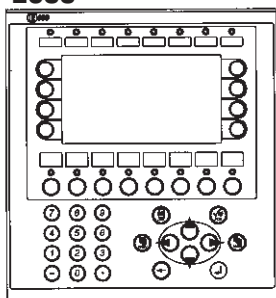
E610/615



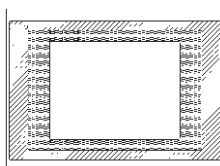
General Specifications

	E600	E410S	E300	E200	E150/E150ET	E100	E50
Display Type	Backlit LCD	Backlit LCD Monochrome, touch	Backlit LCD	Backlit LCD	Backlit LCD	Backlit LCD	Backlit LCD
Screen Size (Diagonal)	6"/152mm	38"/96mm	5.4"/137mm	N/A	N/A	N/A	N/A
Display Format	Graphic + text	Graphic + text	Graphic + text	Text	Text	Text	Text
Display Size	240 x 128 pixels	320 x 240 pixels	240 x 64 pixels	4 rows x 20 characters	2 rows x 20 characters	2 rows x 20 characters	2 rows x 16 characters
Text Height (mm)	Variable	Variable	Variable	5	5	5	5
LED	16 (two colors)	N/A	16 (two colors)	5 (two colors)	N/A	N/A	N/A
Function Keys	16 (8 with own text)	N/A use touch keys	8 (with own text)	5 (with own text)	6 (with own text)	4	4
Buzzer	Yes	Yes	Yes	N/A	N/A	N/A	N/A
Alarm Management	4 Groups	5 Groups	4 Groups	1 Group	Yes	N/A	N/A
Time Channels	4	4	4	4	4	4	N/A
Real Time Clock	Yes	Yes	Yes	Yes	Yes	Yes	N/A
Trend Graphs	Historic	Historic	Real time	N/A	N/A	N/A	N/A
Recipe Handler	Yes	Yes	Yes	Yes	Yes	Yes	N/A
Report Printout	Yes	Yes	Yes	Yes	Yes	Yes	N/A
Passwords	8 Levels	8 Levels	8 Levels	8 Levels	8 Levels	8 Levels	N/A
Transparent Mode	Yes	Yes	Yes	Yes	Yes	Yes	N/A
Application Memory	400kB Flash (expand to 8.5MB)	512 kB Flash (not expandable)	400kB Flash (expand to 8.1MB)	64kB Flash (not expandable)	64kB Flash (not expandable)	64kB Flash (not expandable)	16kB Flash (not expandable)
No. Expansion Card Locations	1	N/A	1	N/A	N/A	N/A	N/A
Dimensions W x H x D mm (in)	214 x 232 x 69 (8.4 x 9.1 x 2.7)	142 x 100 x 29 (5.6 x 3.9 x 1.1)	211.5 x 198 x 69 (8.3 x 7.8 x 2.7)	147 x 163.5 x 38 (5.8 x 6.4 x 1.5)	142 x 100 x 29 (5.6 x 3.9 x 1.1)	142 x 90 x 29 (5.6 x 3.5 x 1.1)	104 x 69 x 35 (4.1 x 2.7 x 1.3)
Weight kg (lbs)	1.4 (3.0)	0.5 (1.1)	1.5 (3.3)	0.7 (1.5)	0.5 (1.1)	0.5 (1.1)	0.2 (0.44)
Power Supply	24 VDC, 20-30 V	24 VDC, 20-30 V	+24 VDC, 20-30 V	+24 VDC, 20-30 V	+5 VDC, ±5%	5 VDC (via PLC program port or independent)	+5 VDC, ±5%
Maximum Current Draw	450mA	450mA	350mA (24 V)	150mA (24 V)	200mA (5 V)	200mA	200mA (5 V)
Ambient Temperature	0-50°C/32-122°F	0-50°C/32-122°F	0-50°C/32-122°F	0-50°C/32-122°F	0-50°C/32-122°F	0-50°C/32-122°F	0-50°C/32-122°F

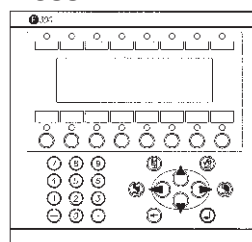
E600



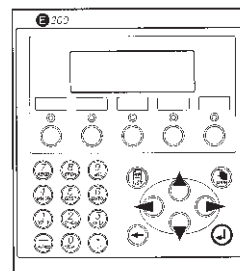
E410



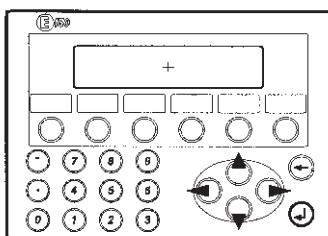
E300



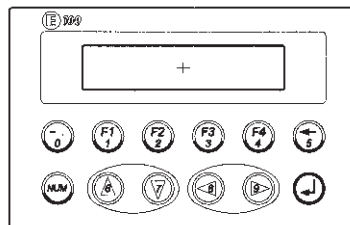
E200



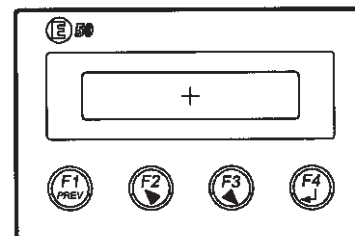
E150/E150ET



E100



E50



E-Keys

Unit of Measure: mm

