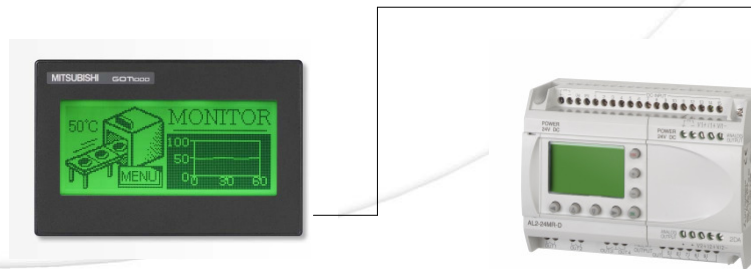


GT10 HMIs connected to Alpha2 controller

Quick Start Guide



Mitsubishi Electric – GOT1000 – GT10 and Alpha2 connection, December 2007



Notes

- **In the following Quick Start guide, we will configure a system using the GT10xx-LBD2 (RS232,24VDC) connected directly to Alpha2 GSM Port.**

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STEP 1 - HMI

- **Select the Terminal**
(must have 232 interface),
product names and SAP no.:

 - **GT1030-LBD2** 206970
 - **GT1030-LBDW2** 206972
 - **GT1020-LBD2** 200492
 - **GT1020-LBDW2** 208669

- **Locate GT10 Mounting Packaging**
 - (1) Rubber Gasket
 - (4) Mounting Clips
 - (1) Communication Terminal IF



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STEP 2 – Alpha2 controller

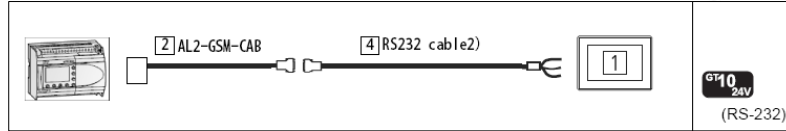
- **Select the Alpha2 controller**
Product names and SAP no.:

AL2-10MR-A	163515	Alpha XL Base Unit AC 100-240 V; 6 inputs AC 100-240 V; 4 relay outputs
AL2-10MR-D	163516	Alpha XL Base Unit DC 24 V; 6 inputs DC 24 V; 4 relay outputs
AL2-14MR-A	164867	Alpha XL Base Unit AC 100-240 V; 8 inputs AC 100-240 V; 6 relay outputs
AL2-14MR-D	164868	Alpha XL Base Unit DC 24 V; 8 inputs DC 24 V; 6 relay outputs
AL2-24MR-A	164869	Alpha XL Base Unit AC 100-240 V; 15 inputs AC 100-240 V; 9 relay outputs
AL2-24MR-D	164870	Alpha XL Base Unit DC 24 V; 15 inputs DC 24 V; 9 relay outputs



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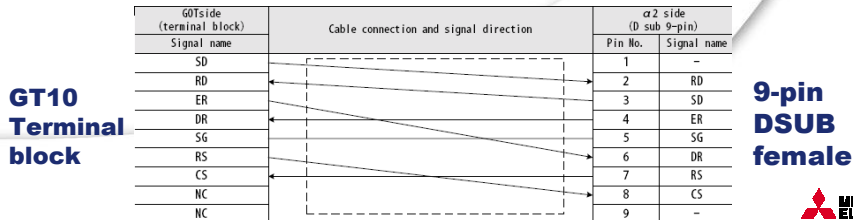
STEP 3 – communication cable



[2]: Use Alpha 2 GSM communication cable to connect to GSM Port of ALPHA2:

- **AL2-GSM-CAB, 142528**

[4]: Create small RS232 Adapter cable (7 wires)



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STEP 4 – Programming cable

- **Programming Cable HMI**

- **Option #1 for Serial connections (9pin, RS232)**

- **GT01-C30R2-6P, 163959**

- **Option #2 for USB connections (USB mini)**

- **USB/Serial Converter and USB Cable**
- **GT01-RS2TUSB-5S, 200500**
- **GT09-C30USB-5P, 166373**



- **Programming Cable Alpha2**

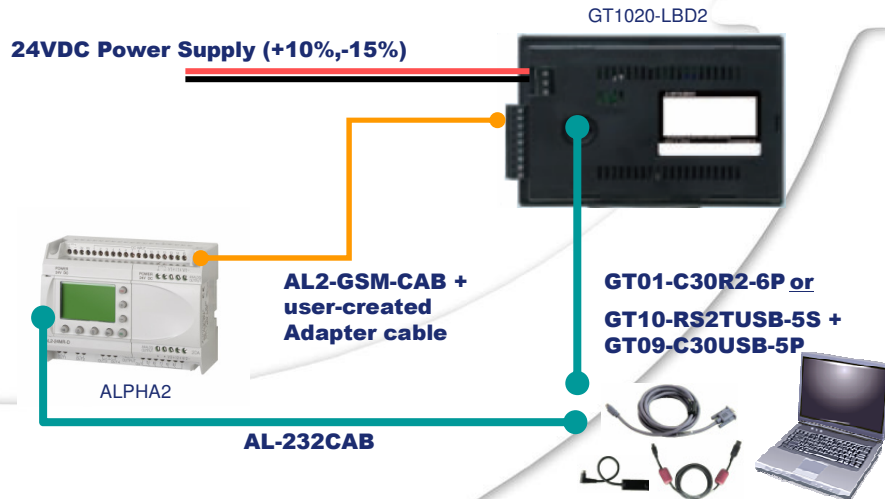
- **Serial connection (9pin, RS232)**

- **AL-232CAB, 87674**

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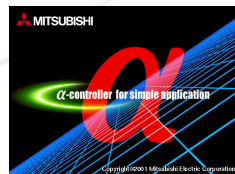
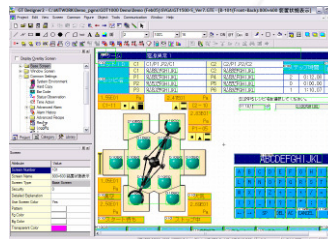
Successful Configuration Example

GT1020-LBD2 with RS232 CONNECTION



STEP 5 – Software 1

- **GT-Works2 software Suite**
 - **GT-Designer2**
 - **MUST have Version 2.73B or later to support Alpha2 driver!!**
- **Alpha programming software**

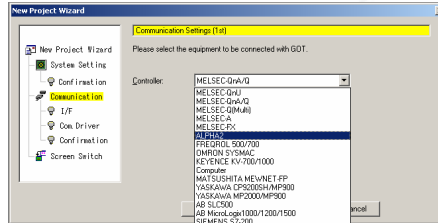


Make the communication settings by front panel key or AL-VLS/WIN-E.

Item	Setting
Modem	other
Data Bit	8
Parity	None
Stop Bit	1
Baud Rate	9600

STEP 5 – Software 2

- **Select ALPHA2 driver**



- **Install new OS and ALPHA2 driver to GT10 HMI**

– => See next page!



STEP 5 – Software 3

- **Switch GT10 into “OS installation mode”**



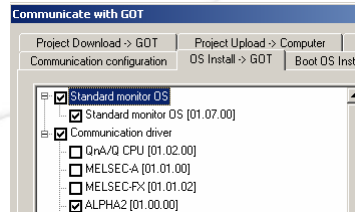
Turn the GOT power on with the lower right corner touched.

- 1 Turn on the power while pressing and holding the bottom right corner of the screen.



- 2 The OS installation screen will appear.

- **Install new OS and ALPHA2 driver to GT10**
- **Download GT Designer and ALPHA applications**



Alpha2 Device range available for GOT1000 series

- The device ranges of Alpha2 that can be used for GOT are shown in the right table.
- Note that the device ranges in the right table are the maximum values that can be set in GT Designer2.
- When a non-existent device or device No. outside the range is specified, other objects may not be monitored.

	Device name	Setting range	Device No. representation
Bit device	System Bit (M) ^{*1}	M01 to M24	Decimal
	Input Terminal (I)	I01 to I15	
	External Input (EI)	EI129 to EI132	
	Output Terminal (O)	O01 to O09	
	External Output (EO)	EO129 to EO132	
	Key Input (K)	K01 to K08	
	Link Input (E)	E01 to E04	
	Link Output (A)	A01 to A04	
	Control Device (N)	N01 to N04	
	Communication Bit Device (CB)	CB001 to CB100	
Word device	Analog Input (AI) ^{*1*2}	AI01 to AI08	
	Communication Word Device (CW) ^{*2}	CW001 to CW100	
	Communication Word Device For Time Switch FB (CWT) ^{*3}	CWT001 to CWT100	

*1 Only reading is possible.

*2 Only 16-bit (1-word) specification is possible.

*3 Only 32-bit (2-word) designation is possible.