

Appendix C Communication Error Messages

If a communication error is detected, a corresponding error message will be shown on HMI screen (Figure C-1-1). This chapter describes the meanings of communication error messages displayed on HMI screen.

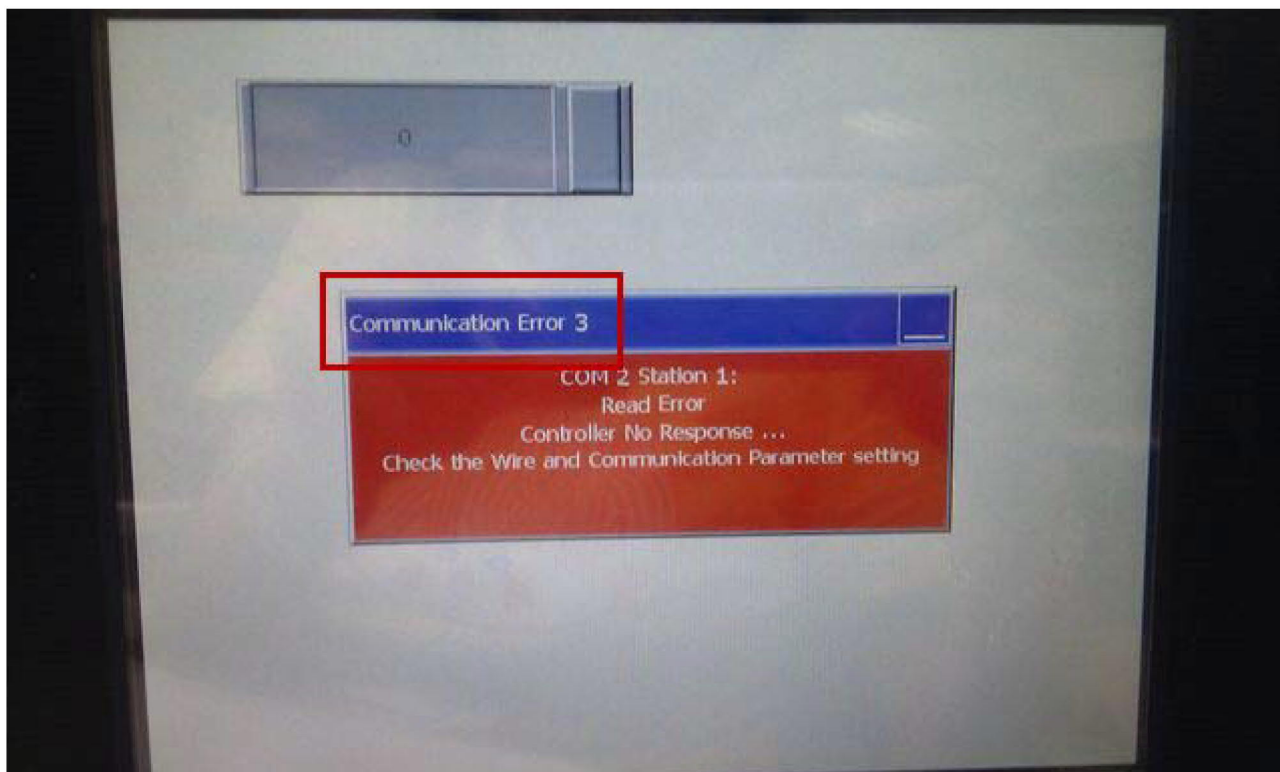


Figure C-1-1 Example of HMI Communication Error Message



Appendix C Communication Error Messages

When HMI cannot communicate with the controller, to help debug, please refer to the following table for the meanings of communication error codes and its corresponding error messages.

Error Code	Communication Error Messages	Reason	Trouble Shooting
0x02	Unknown	Noise Interference	Stronger anti-noise interference equipment, screened from transfer cable.
0x03	NoResponse	Incorrect wiring, PLC station number, communication parameter include (Baudrate, Parity, Data bits and Stop bit)	Please refer to left description to check setting correct or not.
0x05	ControllerChecksumError	When HMI check PLC CheckSum then find out error	Please checks PLC CheckSum enable or not, it has to use PLC software to confirm this function.
0x06	CommandError	Read PLC command error	Please check HMI read address could over PLC useful address or not, or the address cannot be written.
0x07	AddressError	Read PLC address error	Please check HMI read address could over PLC useful address or not, or the address cannot be written.
0x08	ValueError	Data written to PLC error	Please check PLC acceptable data range.
0x09	Controller busy	PLC is busy and uable to process the command.	PLC is busy, please try it later.



Error Code	Communication Error Messages	Reason	Trouble Shooting
0x0A	NoCTS	HMI CTS pin did not receive PLC RTS signal.	Please check CTS pin at HMI side and RTS pin at PLC side connect or not, or PLC send RTS signal or not.
0x0E	HMIStationNumberError	HMI station number error	Please check HMI station number over legal station number range or not, or duplicated with other station number.
0x0F	PLCStationNumberError	PLC station number error	Please check PLC station number over legal station number range or not, or duplicated with other station number.
0x10	UARTCommunicateFail	HMI bottom layer occur communication error. COM Port did not open or HMI work too busy to cause COM Port abnormal situation.	Please be sure COM Port could use normally or not, or simplified HMI loading. For example, delete ALARM or MACRO command.
0x1A	RTCSYNCErrors	PLC does not support this command.	Please use the PLC which supports this command.
0x1B	Receive Error	Data format sent by PLC is wrong.	Please make sure the data format is correct.

Table C-1-1 Communication Error Codes and Messages

MPI communication error codes are for Siemens's controllers such as S7-300 (Direct MPI) series, S7-300 (Without PC Adaptor) series and S7-200 series. If the communication is failed when connecting to Siemens's controllers, please refer to the following Table C-1-2 to identify the error messages.

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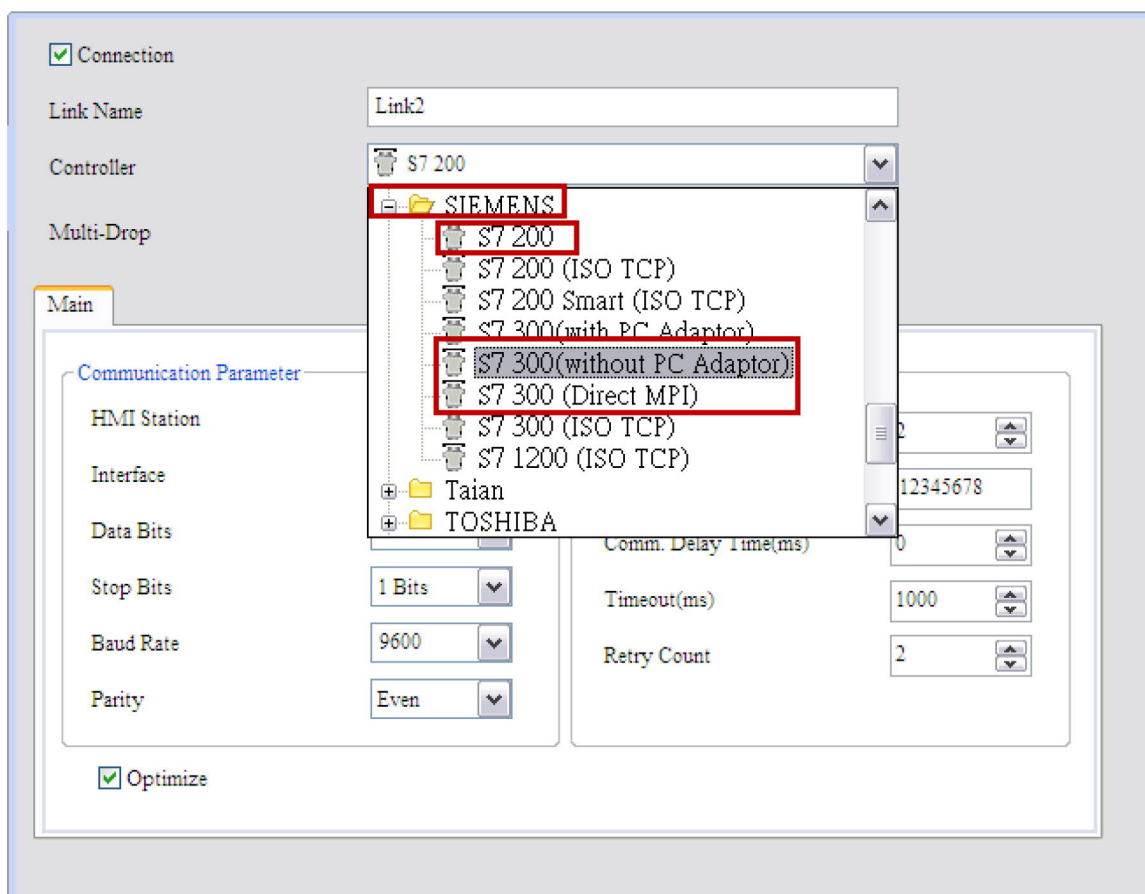


Figure C-1-2 Siemens's Controllers

Error Code	Communication Error Messages	Reason	Trouble Shooting
0x11	MPI_IDLE (It is suitable for S7 300 - without PC adaptor, S7 300 - Direct MPI or S7-200)	The error message is special for Siemens PLC. When the Internet idel, HMI cannot acquire the packet.	See if it is because the number of connected module is excessive and causes insufficient bandwidth
0x12	MPI_SN_COLLID (It is suitable for S7 300 - without PC adaptor, S7 300 - Direct MPI or S7-200)	The error message is special for Siemens PLC. Duplicate station number.	Please make sure if the station number is duplicate.
0x14	MPI_NO_SC (It is suitable for S7 300 - without PC adaptor, S7 300 - Direct MPI or S7-200)	The error message is special for Siemens PLC. The connected station number exceeds the limit.	See if the connected module exceeds the limit.
0x18	MPINoResponse (It is suitable for S7 300)	The error message is special for Siemens	See if it is because the cable is disconnected



	- without PC adaptor or S7 300 - Direct MPI)	PLC. The connection request has no response.	or defective contact.
0x0B	NoResource (Applicable for S7 300 - without PC adaptor, S7 300 - Direct MPI and S7-200)	Siemens PLC error message. It is PLC loading too heavy.	Simplified PLC program, reduce loading.
0x0C	NoService (Applicable for S7 300 - without PC adaptor, S7 300 - Direct MPI and S7-200)	Siemens PLC error message. It is PLC loading too heavy.	Simplified PLC program, reduce loading.
0x3F	Read Error (It is suitable for S7 300 - without PC adaptor, S7 300 - Direct MPI or S7-200)	The error message is special for Siemens PLC. PLC address exceeds the accessing range.	Please set up PLC address which can be normally accessed.

Table C-1-2 MPI Communication Error Codes and Messages

When the connecting controller is OMRON's C/CPM/CQM Series, if a communication error occurs, please refer to the following Table C-1-3 for the meanings of communication error code.

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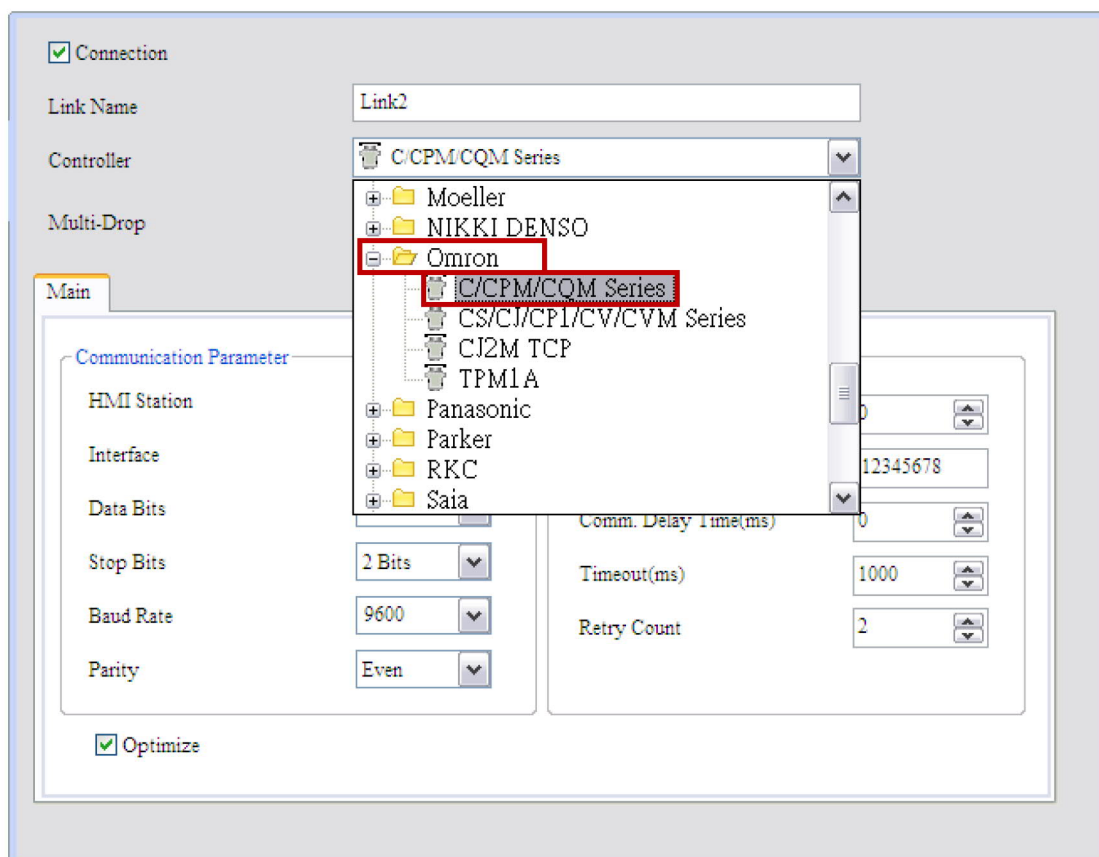


Figure C-1-3 Omron's Controllers

Error Code	Communication Error Messages	Reason	Trouble Shooting
0x1F	NOTExecutableInRunMode	It means HMI already connected with PLC, but PLC is in Run mode, so that it cannot accept data write command.	PLC must be in Monitor Mode then it could accept data write command. This error message only have one time, due to when HMI find out Mode error, it will change PLC mode to Monitor mode automatically.

Table C-1-3 Communication Error Code and Message for Omron's Controller