

APPENDIX A ERROR AND INFORMATION MESSAGES

The messages shown on the P190 Programmer screen serve two purposes: to provide you with instructions and information, and to alert you to errors in operation and programming. The messages defined in this section are listed alphabetically. Suggested action is given to help you correct error conditions. Most error or information messages are cleared from the screen by the next valid keystroke. Conditions requiring your attention (such as a communications failure) must be handled by pressing CLEAR ERROR, then RESET.

NOTE

Many error responses may be avoided by making sure that communications parameters are set up correctly between the P190 Programmer and the J470 Adapter or J474 Interface.

All messages listed below with an asterisk (*) next to them are information messages rather than error messages.

<u>MESSAGE</u>	<u>DESCRIPTION</u>	<u>SUGGESTED ACTION</u>
ATTEMPT TO XMIT MESSAGE OF BAD LENGTH	Communications error in message from the P190 Programmer.	CLEAR ERROR, RESET, and retry operation.
BAD ADDRESS BOUNDARY	The message received by the 484 PC contained an illegal address.	Reload program into 484 PC using P190 Programmer. If error persists, reload 484 PC from previous dump tape of program.
BAD LENGTH RECEIVED	Communications error in message received by P190 Programmer from 484 PC (via interface).	CLEAR ERROR, RESET, and retry operation.
CANNOT EXPAND NULL COLUMN	Displayed when EXPAND COLUMN is pressed and the cursor is in a column containing no nodes.	
CANNOT TRACE SHORTS, OPENS, CONSTANTS, OR DUMMY REFERENCES	Nodes with numeric values (constants), with undefined elements (dummy references) or without reference numbers (shorts, opens) are not traced.	Move cursor to desired node and/or reference number and retry operation.
*CHECKING FOR USED COIL(S)	User logic is being checked to assure that the requested coil or group of coils has not already been used. This will be followed by the insertion of the coil, or by the message "COIL USED".	

ERROR AND INFORMATION MESSAGES

<u>MESSAGE</u>	<u>DESCRIPTION</u>	<u>SUGGESTED ACTION</u>
CHECKSUM FAILURE	Communications error in message transmitted to the P190 Programmer from the 484 PC via the J474 Interface.	CLEAR ERROR, RESET and retry operation.
CHECKSUM FAILURE AT 484	Communications error detected at 484 PC.	CLEAR ERROR, retry operation.
COIL ABOVE AND TO LEFT OF CURSOR	The insertion of a node cannot be performed because the necessary additions would obstruct the coil extensions.	Move the coil to the right by adding horizontal shorts.
COIL BELOW AND TO LEFT OF THE END OF THIS COLUMN	The column cannot be expanded any further because it would interfere with a coil extension.	Rearrange logic to accommodate coil extension. Expand the columns to the left first, if possible.
COIL BELOW OR TO LEFT IN NEXT ROW	A vertical short cannot be inserted because there is a coil extension below and to the left.	Rearrange logic to accommodate coil extension.
COIL EXTENSIONS WOULD BE BLOCKED BY NODE OR VERTICAL	A column cannot be compressed or expanded if nodes or verticals would interfere with the coil extension.	Rearrange logic to accommodate coil extension. Compress columns from right to left, if possible.
COIL (LATCH) NOT DISABLED	The coil or latch cannot be forced ON or OFF because it has not been disabled.	Disable the coil. It can then be forced ON or OFF.
COIL (LATCH) WITH THIS REF NOT FOUND ON DATABASE	No coil or latch with the selected reference number has been found in user logic by the trace or disable function.	
COIL MAY NOT HAVE VERTICAL	A vertical cannot be placed with a coil or its extension.	
COIL USED	The requested coil has already been programmed and cannot be used again. In the case of a convert function, this coil is one of twelve needed to perform a convert.	Select new coil number.

ERROR AND INFORMATION MESSAGES

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COIL 257 IS BATTERY OK	Coil 257 cannot be programmed in user logic. This coil always indicates the status of the battery backup system.	Select new coil number.
COLUMN FULL	There is not enough room to expand the selected column.	
COLUMN MUST HAVE SOLITARY OPEN	When using the DELETE COLUMN function, the selected column must consist of only a single vertical open at the top of the column	
COLUMN 10 MUST CON- TAIN ONLY COILS AND OPENS	When using the CREATE COLUMN function, the tenth column must be empty, or contain only coils (extended by dotted lines) and opens. If there is a node in column ten, such as a contact, timer, or horizontal short, it will not be permitted in the eleventh column.	
COLUMN 11 NOT EMPTY	The CREATE COLUMN function may not be performed because of lack of room.	
COMMAND TIMEOUT OR ABORT (J474)	No response has been received by the J474 Interface from the 484 PC.	CLEAR ERROR, retry operation. If error persists, examine connections between J474 Interface and 484 PC. (Refer to <u>J474/J475 Interface User's Guide</u>).
CONSTANT TOO LARGE	The decimal value in the AR (assembly register) is too large to be used, as when an attempt is made to place a value greater than 999 into a register.	

ERROR AND INFORMATION MESSAGES

<u>MESSAGE</u>	<u>DESCRIPTION</u>	<u>SUGGESTED ACTION</u>
CONTROLLER RUNNING	The attempted action (e.g., trying to clear the memory) cannot be performed because the controller is running.	Stop controller, then perform action.
*CONTROLLER RUNNING, REG. DATA MAY CHANGE WHILE LISTING	This message is a warning in the ON-Line mode that the status of data can change during the listing because the controller is running.	
CRC FAILURE	Indicates a communications error picked up by the error checking (CRC = cyclical redundancy check).	CLEAR ERROR, RESET and reattempt operation.
*DOING CROSS REFERENCE	This message indicates the status of the listing when it is cross referencing. The message flashes on the screen.	
EMPTY COLUMN	This message occurs when CREATE COLUMN is pressed and the cursor is positioned in an empty column.	Move cursor to the first column to the left which contains logic and retry operation.
*EMPTY NETWORK	This message indicates that there is no logic contained in a specific network.	
*END OF CONTROLLER NAME	Occurs in ladder list function to indicate that the user has filled the space available for the CONTROLLER NAME (6 characters).	
*END OF LISTING	This message indicates that the listing is complete and the program is ready to begin another listing.	

ERROR AND INFORMATION MESSAGES

<u>MESSAGE</u>	<u>DESCRIPTION</u>	<u>SUGGESTED ACTION</u>
END OF LOGIC	There are no more networks started or programmed into logic memory.	If another network is desired, press START NETWORK.
END OF TAPE ENCOUNTERED	This message is a warning that the end of tape has been reached before it should have appeared.	Remove tape, reload P190 program, and retry operation. If error reoccurs, select new tape.
END OF TAPE FAULT	The tape has run out past the allowable point. This message may follow "END OF TAPE ENCOUNTERED".	Remove tape, and retry operation with a new tape.
*END OF TITLE	Occurs in ladder list function to indicate that the user has filled the space available for TITLE (60 characters).	
*ERROR:	This appears on the error line of the screen preceding each error message.	
FATAL ERROR - MUST INITIATE RESET	Communications error message has been cleared from screen. RESET must be pressed to be able to reinitiate communications.	RESET, and reattempt operation.
FUNCTION NOT ALLOWED	The requested function cannot be performed at this time. This may be due to cursor position, type of screen displayed, etc.	Review the necessary conditions for performing a function and make sure they are all satisfied.
*HIGHEST NETWORK FOUND: XXXX	This message appears when an attempt is made to get a network, and the network number in the AR is greater than the highest network number in the controller. The message gives the number of the last network.	

ERROR AND INFORMATION MESSAGES

<u>MESSAGE</u>	<u>DESCRIPTION</u>	<u>SUGGESTED ACTION</u>
ILLEGAL ADDRESS (J474)	The message received by the J474 Interface contained an illegal address.	CLEAR ERROR, retry operation. Reload program into P190 from 484. If error persists, reload 484 PC from previous dump tape of program.
ILLEGAL FUNCTION (J474)	Communications error. The MODBUS system function code was not recognized.	CLEAR ERROR, retry operation. See Modicon Modbus System User's Manual for system diagnostics.
ILLEGAL REPLACE	This message is displayed if the user attempts to replace one type of node with a dissimilar type of node, such as trying to replace a contact with a timer.	Select appropriate node or reference and retry operation. Delete previous node and replace with desired node.
*INSERT 484 DUMP TAPE AND PRESS COMMENCE	After pressing the READ TAPE software label key, this instruction message appears.	Insert 484 Dump Tape. Software labels COMMENCE and CANCEL appear. Press COMMENCE to start dumping the tape into the P190's memory.
INSUFFICIENT ROOM	There is not enough room remaining in the column for a multinode element. For example, a calculate cannot be placed in the next to last or last row.	Rearrange logic to accommodate a multinode element.
INTERACTION BY OTHER PROGRAMMER	Occurs when using GET PREV or GET NEXT. The network length has been altered; nodes have been added or deleted by another programmer.	CLEAR ERROR, RESET, and retrieve network to update display.
INVALID ADDRESS	Communications error. Message not received correctly due to invalid field.	CLEAR ERROR, RESET, and reattempt operation.
INVALID COMMAND		
INVALID DATA (J474)	Communications error detected by J474 Interface.	CLEAR ERROR, RESET, and retry operation.
INVALID MESSAGE LENGTH AT 484	Communications error detected by 484 PC.	CLEAR ERROR, RESET, and retry operation.

ERROR AND INFORMATION MESSAGES

<u>MESSAGE</u>	<u>DESCRIPTION</u>	<u>SUGGESTED ACTION</u>
INVALID NETWORK #	The network number in the AR is not a legal network number.	Select a valid network number and retry operation.
INVALID NODE	Communications error. Message not received correctly due to invalid field.	CLEAR ERROR and reattempt operation. If the error persists, reload the P190 program.
INVALID RANGE	This message indicates that the parameters (FROM/TO) for the beginning and the end of the list are invalid.	Enter valid parameters.
INVALID REFERENCE NUMBER	The reference number (e.g., 1XXX) is not valid for the type of node or operation used (e.g., trying to place a 1XXX reference in the bottom of a timer).	Enter valid reference number and retry operation.
INVALID TAPE RECORD TYPE	The data on the tape is not the right kind to be used in the selected operation. For example, trying to read a P190 program tape instead of a 484 dump tape using the OFF-Line READ TAPE function.	Check the tape to assure that it is the right type. Retry operation. If the tape is the right kind, and the error persists, retry the operation with a new tape.
INVALID UNIT NUMBER	The J474 Interface unit number is not in the valid range, 1 through 247.	Enter a valid unit number and retry ATTACH.
*LISTING ABORTED	This message occurs during ladder listing to inform you that the ladder listing has been aborted, as directed by you.	
LOADER ENCOUNTERED BAD ADDRESS BOUNDARY	This message can occur in OFF-Line programming during the READ TAPE function. The tape may be damaged.	CLEAR ERROR, try to reload tape. Inspect tape for damage. If error persists, use a back-up tape.

ERROR AND INFORMATION MESSAGES

<u>MESSAGE</u>	<u>DESCRIPTION</u>	<u>SUGGESTED ACTION</u>
*LOADING	After inserting a 484 dump tape into the P190, this message appears indicating that the tape is being loaded or dumped into the P190's memory.	
MEMORY FULL	No more user logic can be entered. All words of memory have been used. The label "AVAIL:" on the state line should show all zeros.	Review program for best use of memory.
MEMORY PROTECT ON	The desired action cannot be performed because the 484 PC keylock is locked.	Unlock the Memory protect keylock to perform desired action.
MUST BE A COIL OR A LATCH	The selected action cannot be performed because the cursor is on a node that is not a coil or latch. For example, a 4XXX reference cannot be enabled, disabled, or forced.	Position cursor on desired coil or latch and retry.
MUST BE OPEN WITHOUT VERTICAL IN THE INTERIOR OF A COLUMN	In order to compress a column, the cursor must be positioned on a horizontal open with no vertical above the logic to be moved.	Reposition cursor, if possible, to compress column as needed.
MUST BE 4XXX REGISTER	Values can only be entered into holding registers.	
*NODATE	This message appears as the DATE value if no value has been entered for DATE. It is expressed as NO/DA/TE.	
NODE IN ROW TO RIGHT OF CURSOR	A coil cannot be entered at this point because it would be blocked by a node to the right of the cursor.	Rearrange logic to allow for clear path to column 11.

ERROR AND INFORMATION MESSAGES

<u>MESSAGE</u>	<u>DESCRIPTION</u>	<u>SUGGESTED ACTION</u>
NO ELEMENT AT CURSOR	To perform the requested operation, the cursor must be placed on an element.	Place cursor on appropriate element and perform operation.
NO END OF LOGIC DETECTED - CLEAR 484 MEMORY	The EXIT Level cannot be entered because no end of logic node has been found in the 484 PC memory. The PC memory may have been put out of logical order due to loss of power without battery backup.	Press CLEAR 484 MEMORY then press CONFIRM. Reload 484 PC memory from dump tape, if necessary.
NO FUNCTION ASSIGNED TO KEY	The selected key has no function at this stage of operation (e.g., pressing a key with no software label).	Select appropriate key.
NO NETWORK IN CONTROLLER	The controller has no networks programmed into user logic.	
NO NETWORK IN P190	The P190 Programmer is not holding or displaying a network.	Get an existing network, or press START NEXT to create a new network.
NON-PRINTABLE CHARACTER	This message indicates that the key pressed is for a character which cannot be printed on a ladder list, such as Carriage Return or Line Feed.	
NO (OTHER) DISABLED INPUT	This message appears when the search and continue search functions have located all disabled inputs.	
NO REFERENCE AT CURSOR	On the alternate screen or reference area, no operations can be performed unless the cursor is placed on a reference number.	Place cursor on selected reference number and retry operation.

ERROR AND INFORMATION MESSAGES

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NO ROOM IN REFERENCE	The trace, other than that of a contact referenced to a coil, cannot be performed because there is no room in the reference field to display the value or status.	Erase entries in reference field, or move needed data to alternate screen.
NO SEARCH PARAMETERS	A search cannot be performed unless parameters, node type and/or reference number, are entered into the set search area.	Set search parameters.
NOT ALLOWED IN COLUMN 11	The CREATE COLUMN function cannot be used when the cursor is in column 11.	
NOT ATTACHED TO CONTROLLER	The selected operation cannot be performed because the P190 Programmer is not attached to the controller.	Attach to the controller, and retry the operation.
NOT IN PROGRAM MODE	The selected function or key (e.g., DELETE, or ENTER) is only operative when the P190 keylock is unlocked.	Unlock the P190 keylock and perform operation.
NOT TOP ROW OF ELEMENT	To perform the expand column function when the cursor is on a multinode element, the cursor must be in the top row of the element.	Place cursor on top row of element and retry operation.
NO VERTICAL IN ROW SEVEN	A vertical cannot be placed in row seven.	Rearrange logic to allow for insertion of vertical.
ONLY DECIMAL CHARACTERS ALLOWED IN AR	Only decimal numbers (0-9) are allowed in the AR (assembly register). Letters (A-Z) and special characters (?,;, etc.) are not valid.	Re-enter valid data.

ERROR AND INFORMATION MESSAGES

<u>MESSAGE</u>	<u>DESCRIPTION</u>	<u>SUGGESTED ACTION</u>
OVERRUN ERROR AT 484	Communications error detected at 484 PC. The runlight may be out on the 484 PC.	CLEAR ERROR, start 484 PC if necessary, and retry operation. If error persists check P190 Programmer and 484 PC baud rates.
PARAMETER SET-UP NOT COMPLETE	This message indicates that not all the necessary parameters have been set.	Set remaining parameters and perform operation.
PARITY FAILURE AT 484	Communications error detected at 484 PC.	CLEAR ERROR, retry operation. If error persists check parity settings on P190 Programmer and on interface.
PORT EMPTY OR UNCONNECTED	Communication is not possible because there is no connection to a	Check to assure that the correct cable is used. Check connections at P190 Programmer and at interface.
PORT 2 NOT CONNECTED	Peripheral port 2 (used for connection to printers, etc.) is not connected; communications are not possible.	Check to assure that correct cable is used. Check connections at P190 Programmer and at peripheral device.
PORT 2) RECEIVE) TIMEOUT)	Message occurs during print operations. Indicates that communications have been interrupted.	Check to make sure correct cable has been used. Check Port 2 parameters. CLEAR ERROR and retry operation.
PORT 2) TRANSMIT) TIMEOUT)		
PORT 2 USART STATUS ERROR	Communications error.	CLEAR ERROR, retry operation.
P190 USART STATUS ERROR	Communications error.	CLEAR ERROR, RESET.
REFERENCE FOUND ON ALTERNATE SCREEN	The traced reference is already held on the alternate screen. This message appears only if the reference area below the logic area is full.	Change screen to display alternate screen containing reference.

ERROR AND INFORMATION MESSAGES

<u>MESSAGE</u>	<u>DESCRIPTION</u>	<u>SUGGESTED ACTION</u>
REFERENCE NUMBER NOT REQUIRED	No reference number is needed to complete this type of node, (e.g., a horizontal short).	
SEARCH FAILED	No node and/or reference number as set in the search parameters was found in user logic.	
TAPE CHECKSUM FAILURE	A bad piece of informa- tion has been detected on the tape being loaded.	CLEAR ERROR, reload tape. If error persists use back-up tape.
TAPE DRIVE NOT READY	No tape has been inserted into the tape transport, or the tape is not correctly in place.	Insert tape, or make sure that tape is properly inserted.
TAPE DRIVE TIMEOUT	Tape transport or tape error.	Remove tape and inspect for damage. Reinsert tape and retry operation. If error reoccurs, try new tape.
TAPE NOT READ IN	Error in the OFF-Line mode if the READ TAPE function was unsuccessful.	CLEAR ERROR, retry READ TAPE.
TAPE RECORDS OUT OF SEQUENCE	This message occurs during load operations if the information on the tape is out of sequence, or the tape is not being read correctly.	Retry operation. If error reoccurs, try new tape.
TAPE USART STATUS ERROR	This tape error occurs during load tape operations if the tape has been magnetically damaged.	Retry operation. If error reoccurs, try new tape.
TAPE VERIFICATION ERROR	This message occurs during a dump operation if the information on the tape has been written incorrectly.	Retry operation. If error reoccurs, try new tape.

<u>MESSAGE</u>	<u>DESCRIPTION</u>	<u>SUGGESTED ACTION</u>
TAPE WRITE PROTECTED	The tape cannot be written over because the record tab is in the write protect position. This is usually done to a tape that is to be saved.	Make sure that the tape is to be written over. Locate the record tab in the upper left-hand corner of the tape. Slide tab all the way to the left. Insert into tape transport and retry operation.
TIMEOUT ERROR - COMMUNICATIONS DOWN	The P190 Programmer has not received a response in the allotted amount of time.	CLEAR ERROR, RESET, and retry operation. Check to make sure that the correct cable is used, and that the port parameters are correct.
TOO MANY CHARACTERS RECEIVED ON PORT 2	Communications error.	CLEAR ERROR, retry operation.
TRACE STACK EMPTY	Each successive network traced is put in a trace stack, up to 16 networks. This stack is emptied by using the retrace function. This message is displayed when a retrace is attempted but no networks are in the stack.	
UNDEFINED) ERROR CODE) FROM 484))	An error code was received from the 484 PC or from the J474 Interface; the P190 Programmer did not recognize the code.	CLEAR ERROR, retry operation.
UNDEFINED) ERROR) (J474))		
VERTICAL ABOVE AND TO RIGHT IN PREVIOUS ROW	A coil cannot be inserted here because the vertical above and to the right would interfere with the coil extension.	Rearrange logic to allow for clear path of coil to column eleven.
VERTICAL IN ROW 6	EXPAND COLUMN cannot be performed because that would place a vertical in row seven. No verticals are allowed in the last row of logic.	