

2.12 Error Codes

After you write the program into the PLC, the illegal use of operands (devices) or incorrect syntax in the program will result in flashing of ERROR indicator and M1004 = On. In this case, you can find out the cause of the error by checking the error code (hex) in special register D1004. The address where the error occurs is stored in the data register D1137. If the error is a general loop error, the address stored in D1137 will be invalid.

Error code	Cause of error	Error code	Cause of error
0001	Use of device S exceeds the range	0F0A	Times of using TTMR, STMR instruction exceed the range
0002	Using P* repeatedly or use of P* exceeds the range	0F0B	Times of using SORT instruction exceed the range
0003	Use of KnSm exceeds the range	0F0C	Times of using TKY instruction exceed the range
0102	Using I* repeatedly or use of I* exceeds the range	0F0D	Times of using HKY instruction exceed the range
0202	Use of MC N* exceeds the range	1000	Improper use of operands of ZRST instruction
0302	Use of MCR N* exceeds the range	10EF	Incorrect use of E, F, or the modification exceeds the range
0401	Use of device X exceeds the range	2000	Times of using TTMR, PR, HOUR instructions exceed the range. Improper use of operands of MRT, ARWS instructions
0403	Use of KnXm exceeds the range	C400	Illegal instruction
0501	Use of device Y exceeds the range	C401	General loop error
0503	Use of KnYm exceeds the range	C402	Continuously using LD/LDI instructions for more than 9 times
0601	Use of device T exceeds the range	C403	Continuously using MPS for more than 9 times
0604	Use of register T exceeds the range	C404	More than 6 steps in FOR – NEXT
0801	Use of device M exceeds the range	C405	Using STL/RET between FOR – NEXT Using SRET/IRET between FOR – NEXT Using MC/MCR between FOR – NEXT Using END/FEND between FOR – NEXT
0803	Use of KnMm exceeds the range	C407	Continuously using STL for more than 9 times
0B01	Incorrect use of KH	C408	Using MC/MCR in STL, using I/P in STL
0D01	Improper use of operands of DECO instruction	C409	Using STL/RET in subroutine Using STL/RET in interruption subroutine
0D02	ES/EX/SS/EH: improper use of operands of ENCO instruction SA/SX/SC: illegal use of the first operand of ANS instruction	C40A	Using MC/MCR in subroutine Using MC/MCR in interruption subroutine
0D03	Improper use of operands of DHSCS instruction	C40B	MC/MCR does not start from N0, or is not continuous
0D04	Improper use of operands of DHSCR instruction	C40C	Corresponding N of MC and MCR are different
0D05	Improper use of operands of pulse output instruction	C40D	Improper use of I/P
0D06	Improper use of operands of PWM instruction	C40E	IRET does not appear after the last FEND SRET does not appear after the last FEND
0D07	Improper use of operands of FROM/TO instruction		
0D08	Improper use of operands of PID instruction		
0D09	Improper use of operands of SPD instruction		
0D0A	Incorrect operands in DHSZ instruction		

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Error code	Cause of error
0D0B	Improper use of operands in IST instruction
0E01	Use of device C exceeds the range
0E04	Use of register C exceeds the range
0E05	Improper use of operand CXXX of DCNT instruction
0E18	BCD conversion error
0E19	Division error (divisor = 0)
0E1A	Use of device exceeds the range (including E, F index register modification)
0E1B	The index of the radical is a negative value
0E1C	Communication error of FROM/TO instruction
0F04	Use of register D exceeds the range
0F05	Improper use of operand DXXX of DCNT instruction
0F06	Improper use of operands of SFTR instruction
0F07	Improper use of operands of SFTL instruction
0F08	Improper use of operands of REF instruction
0F09	Improper use of operands of WSFR, WSFL instructions

Error code	Cause of error
C40F	PLC program and data in parameters have not been initialized
C41B	Invalid RUN/STOP instruction to extension module
C41C	Points of extension module exceed the range
C41D	Number of extension modules exceeds the range
C41E	Incorrect hardware setting for extension module
C41F	Failing to write data into memory
C420	Read/write function card error
C430	Initializing parallel interface error
C440	Hardware error in high-speed counter
C441	Hardware error in high-speed comparator
C442	Hardware error in MCU pulse output
C443	No response from extension unit
C4EE	No END instruction in the program
C4FF	Invalid instruction (no such instruction existing)