Code	Error Code Description	Possible Reason	Solution
	Extern	al Error Code	
201	Invalid Sub-Module		Set ZMIO_OFFSET as minus or the No. that exceeds starting IN & OUT No., and it must be the times of 8, such as, ZMIO_OFFSET = -8.
210	Oversize File		Downloaded zpj project or zar file is too large, please check controller specification by "?*max".
211	File Size Error		
212	State Error	When in Resume, it is non-pause state.	When in Resume, it is in non-pause state, see if RT running state is switched too fast, this usually appears MotionRT7.
213	Download & Upload File Error, Package Loss	Appear when calling PC function.	
214	Downloaded File Length Verify Error		
215	Insufficient Buffer Length	when the sending character string is too long, return this.	Check the length of character string command. It can't be too long.
217	Unsupported Controller Function		
218	Wrong Called & Transferred Parameters		
219	Downloading Error, Multi-File Downloading		See if several files now are downloading at the same time.
220	Filename Error, Be with Special Character		See if the filename has unsupported character.
221	Too Long Filename		See if the filename's length exceeds.

222	Invalid File	The file may not exist, open it, see whether there is alarm, and check which one.
223	Locked, Password Protection	Enter correct password.
224	Locked, Password Protection 2	Don't unlock the controller too frequently, and the password must be correct.
225	Unknown Error	
226	Disk Space Error	
227	Firmware Version Error	<ol> <li>Check whether it is the latest one – update.</li> <li>See if it matches with your controller – change correct one.</li> </ol>
228	File Open Error	
229	Connection Error	
230	Fail to "bind"	
231	File Read Error	
232	File Write Error	
233	Link Encrypted	
234	Firmware Error	1. Update dll.
235	File Delete Error	
236	Path Error	
237	File Close Error	
240	XPCI Sub-Card State Error	
241	XPCI Sub-Card Memory Resource Error	
242	Sub-Card Setting Error	
243	Unsupported Sub-Card	
	Chip Self-Checking	Error
260	Hardware Error, LED Shrinks	

261	Disk Unformatted			
262	RTC Error			
263	NORFLASH Error		1.	There is strong interference, please restart, if still, contact with us. For XPCIE, please check wiring cable, make sure it is good.
264	RAM Error		1. 2.	Make sure internet stable. Haware error, contact with us.
265	NANDFLASH Error		Sai	me as code 263.
266	U Disk Error		1. 2.	See whether U disk is plugged in stably. Interface error, contact with us.
267	FPGA Error		1.	Contact with us.
268	Ethernet Hardware Error		1.	Contact with us.
	Softv	vare Error		
271	Backup Power Error		1.	Contact with us.
272	Sub-Card Doesn't Exist			
273	ID File Lost		1.	Contact with us.
274	System File Lost		1.	Contact with us.
275	No Master Control, Appear in Sub-Card			
276	Program File Verify Error		1. 2.	For ZMC0XX, see whether is ROM file. Check if ZAR file is correct.
277	Program File Error		1.	See whether it lacks program file.
278	ZAR File "apppass" Error			

279	ZAR File ID Error			
280	Too Many BAS Files		1.	Check controller supported BAS file numbers (?*max – max_file), then see whether it exceeds.
281	Sub-Card ID Conflict / Multi-			
281	Master Conflict			
282	Unsupported Function		1.	The controller doesn't support this function. See if it is controller new function, then update the firmware.
283	"set" File Error	Parameter file lost.	1.	Please modify needed parameters that are saved into flash, then generate as set file automatically.
284	ZAR File Not Matched with Controller			
285	Image File Error			
286	Font File error			
287	.c File Function Syntax Error	Usually C language program error	1.	Check your edited C language program. If bottom layer C language error, please contact with us to update.
288	Above Abnormal, Alarm Again			
200	when Powered On.			
289	Too Fast Reset			
290	Drive Program Init Error			
291	fpga Error		1. 2.	Please restart. Contact with us.
292	Insufficient mmap			

293	MotionRT Trial Expires		1. 2.	Check whether the License is configured For trial mode, please restart MotionRT.
	2	emotion		
1000	Motion Offset Error			
1001	Must Be Interpolation State			
1002	No Motion Buffer			
1003	Can't Be in Interpolation State			
1004	Slave Axis is Moving			
1005	Unsupported Motion Control Function			
1006	Arc Position Error			
1007	Ellipse Para AB Error			
1008	Motion Module Para IN Error			
1009	In Motion, Operate Not Allowed			
1010	Repeat Run "Pause" & Others			
1011	In IDLE, Can't Do Pause, etc.			
1012	Now Motion Doesn't Support Pause			
1013	Pause Point Not Found			
1014	Unsupported ATYPE			
1015	ZCAN ATYPE Conflict			
1016	Unsupported Axis Function			
1017	FRAME Correction Data Error			
1018	Too Less FRAME Correction Data			
1019	Too Less Met FRAME Data			
1020	Too Less FRAME Data Auxiliary Para			
1021	Too Small Span Between FRAME Correct Data, < Joint- Axis Numbers			

1022	FRAME IN Coordinate Error			
	In FRAME, No Way to Modify			
1023	Coordinates			
1024	FRAME Inverse Kinematic Error			
1025	Not FRAME Status			
1026	FRAME HAND Error			
1027	Can't Switch Attitude in			
1027	Interpolation			
1028	UNITS of Special Joint-Axis &			
1028	Virtual-Axis Should Be Same			
		Distance / angle para		
1029	FRAME Called INIT Para Error	exceeds, note the		
		angle unit.		
	CORNERMODE 7-Bit Set			
1030	Already, But Unsupported			
	Motion			
1031	CORNERMODE 7-Bit Set			
	Already, But Not in FRAME.			
1032	AXIS_ADDRESS Error			
1033	Too Many Interpolation Axes			
1034	INTCYCLE Time Out			
2000	RTBASIC Module Offset, Para in			
	Module Error			
			1.	Check if there are
				same definition name
				of different types'
2001-	Internal Error in RTBASIC			variables according to
2020	Module			the message hint.
			2.	Check if it prints
				unassigned variable in
				the function.
2021	Manual Stop			
2022	Task Stops Because Other Tasks			
	Error			
2023	Operate RO Para		1.	Read only parameter

				can't be modified.
			1.	Modify the number of
2024	Array Exceeds			defined arrays (table
				index starts from 0).
2025	Variables > Controller Allowed		1.	Check ?*max –
2026	Arrays > Controller Allowed			max_sub, if more,
2027	Array Space > Controller			please select other
	Allowed			models.
2028	SUB > Controller Allowed			~
			1.	See if there are
2029	Mark Name Error	Command edit error		unsupported symbols (especially in
2029		/ no note for Chinese		(especially in function, variable
				definition).
			1.	See if function or
				variable definitions
2030	Too Long Mark Name			are too long,
				controller has own
				limit.
			1.	See if the parentheses
				are full.
2031	No ")"		2.	See if the parentheses
2031	NO )			are correct or if there
				is special character in
				the middle.
		Command para's	1.	See if there are
2032	Unknown Character	comma is Chinese		unsupported symbols.
		symbol.		
			1.	See if commands are
2033	Unknown Name in Expression	Undefined variable /		edited correctly, and
		array		whether commands
			-	are supported.
2024	SUB Can't Be Used in		1.	Modify SUB usage
2034	Expression			method, SUB
				function only can be

				called.
2043	Unknown Command Mark (Now Line 1 <sup>st</sup> Mark Name)	Command editing error	1.	See if there are wrong editing commands, and if commands are supported.
2044	Stack Overflow	SUB function recursive calling > system allowed times	<ol> <li>1.</li> <li>2.</li> </ol>	Check "?*max" – "max_callstack", see the limit, each controller is different. See if functions are called mutually.
2045	Too Complex Math expression		1.	Check and modify the math expression, each controller is different.
2046	No End Quote Mark Found		1.	Check and modify quote mark.
2047	No Returned Value for The Command, Can't Read		1.	Cancel related commands / functions in expression or use in online command.
2048	Function Must Return a Value, Not at Beginning of First Line		1.	See if executed function that needs return value but the expression didn't output the value, like, directly run SIN(1).
2049	Special Command Must Be One Separate Line	Some commands must occupy one whole line.	1.	Edit related commands in separate line.
2050	Para / Array Needs Index			
2051	Variables Can't Use Index			
2052	Array Redefine & Inconsistent Length	Define same arrays many times.	1.	Check if the array is redefined, and see if the length is not same.
2053	Array Defined Length Para Error,			

	Minus / Oversize			
2054	Mark Defined as SUB	SUB progress mark can't be defined again.	1.	Check if the function name is redefined.
2055	Mark Defined as Parameter		1.	Checkiftheparameternameisredefined.
2056	Mark Reserved, Can't Use		1.	Check defined mark name, see if conflict with existed para command, (mpos,)
2057	Unrecognizable Character	Like "&" can't be identified by system	1.	See if undefined value is transferred.
2058	SUB Calling Out Stack (Repeat)		1.	Check SUB calling logic and correct it.
2060	Syntax Format Error		1.	Find the wrong line, and correct it.
2061	Parameter Overflow			
2062	Function Para Range Error		1. 2. 3.	Check the command parameter or custom function parameter, see if the range exceeds. Check task No., if it is more than allowed by ?*max – max_task Check if there inputs too many contents in executing line.
2063	Too Many Function Parameters			
2064	Too Less Function Parameters			
2065	Lack Operands			
2066	Lack Operands after Operators		1.	Check if the operation
				expression is full.

2068	Unknown Operators			
		2 commands are in		
2069	Lack Binary Operators	one line, one		
		operator is needed.		
			1.	Correct the content to
2070	CALL Must Call SUB			be called after CALL,
				it must be SUB type.
2071	No AUTO, Won't Start			
		When there is no	1.	Correct expression
2072	Lack Assignment Symbol	comma between		information, add
		data, use "space".		needed assign symbol
2073	Empty File			
2074	SUB Defined Mark Name		1.	Check and correct
2074	Conflicts			parameter definition.
			1.	Check if there is
2075	Task to Be ON is Running			conflict on executing
				task No.
2076	Multi-Para, Please Use Comma		1.	Check parameter used
2070	Wulti-1 and, 1 lease Use Collinia			format, correct.
2077	No "<"		1.	Check if the brackets
2077				are full
			1.	Cut down the number
2078	Too Much "IF"			of IN, each controller
				is different.
			1.	Cut down the number
				of LOOP, see "?*max
2079	Too Much "Loop"			max_loopnest",
				each controller is
				different.
2080	Too Less Interpolation Axes		1.	Correct the number of
	r			axes.
		It will report and		
2081	CONST Can't Be Modified.	error when defined	1.	Correct CONST
		constant data is		usage.
		assigned again.		

2082	Command Doesn't Support	
2082	Online Sending	
2083	Too Many SUB Defined Para	<ol> <li>Cut down local parameters (&lt; ?*max</li> <li>max_local of one sub), each controller is different.</li> </ol>
2084	SUB with Para Can't Use in GOTO	1. Use GOTO command correctly.
2085	Too Many LOCAL Defined Para	<ol> <li>Cut down the number, each controller is different.</li> </ol>
2086	LOCAL Variable Name & File Variable Name / Others Conflict	1. Correct   related     content.
2087	LOCAL Doesn't Support Array Definition.	1.         Correct         LOCAL           command usage.
2088	GSUB Defined Para Letters Repeat	1. Correct repeated part.
2089	GSUB Defined Para Only Can Be Single Letter	1. Correct non-single part.
2090	RO Parameter Error	1. Read only parameter can't be modified.
2091	GSUB_IFPARA Usage Error	
2092	Divisor is 0	1. See if one divisor in the code is 0, correct.
2093	Over Buffer	
2094	Online Commands Blocking Too Long (Time)	<ol> <li>Check the network.</li> <li>Check if there are too much data transferring in a short time.</li> <li>Make sure link stable, and bandwidth is OK.</li> </ol>
2095	Same Para Name	1. Rename.
2096	Use Uninitialized Value	1. Initialize the value.

2097	Axis No. Conflicts	1.	Correct axis mapping
2098	Data Type Error		
2099	Inside Error	1.	Usually defined name conflict, correct.
2100	Too Many SCANEDGE		
2101	ZINDEX Type Mismatch		
2102	ZVOBJ > Allowed Numbers		
2103	Inconsistent ZVOBJ Definition		
2104	ZINDEX Value Error		
2110	Call Command Not Enabled		
2120	Structure Define Conflict, Can't Define Multi at the Same Time		
2121	Name & System Command Conflict		
2122	Structure Definition Can't Be Recursive		
2123	Structure "item" & Structure Name Conflict		
2124	Syntax Error, Lack Structure Type		
2125	Structure "item" Error		
2126	Lack Structure Element		
2127	Lack Structure Variable		
2128	Structure > Allowed Numbers		
2129	Structure Element > Allowed		
2130	Structure Type Undefined		
2131	Data Type Undefined		
2132	Structure Define Should Be Before Codes		
2133	Can't Dynamically Delete Static Definition		
2134	Lack Array Type		
2150	Function Return Not Immediate Done		
2151	Function Can't Immediate Return		

	Because Now Expression			
	Doesn't Support			
2152	Dynamic Stake is Overflow			
2200	Function Calling Not Done			
2901	System Error, Too Many Defined			
2701	Mark (variable, array, process)			
3201	Over Buffer			
3202	File Abnormal End			
			1.	Compatible error, see
3203	Program Structure Command	no THEN after IF.		if the command is full,
5205	Lack Something			such as, no THEM in
				IF.
3204	Internal State Error			
			1.	The controller doesn't
				support this function.
3205	Unsupported Function		2.	See if it is controller
				new function, then
				update the firmware.
			1.	You used controller
				unsupported function,
3206	Internal Calling Para Error			please see whether
5200	Internal Caning I and Error			controller supports.
			2.	EtherCAT config file
				is not loaded.
3212	Unknown Error			
3230				
3231	Insufficient Resources			
3232				
3233	OS Return Error			
3242	"os" Error			
3243	U Disk Uninserted		1.	Check if the U disk is
5275				inserted and is stable.

2244	Eile Onemed A soin	2.	Check if the U disk that can be known by your controller.
3244	File Opened Again		
3245	Oversize File		
3248	Filename Error		
3249	Too Long Filename		
3250	No This File		
3301	Arc 3 Points are in One Line	1.	Correct command usage.
3302	2 Parallel Lines, No Intersection Point	1.	Correct command usage.
3401	MODBUS Master Para Error	1.	See if MODBUS master para is correct, see if the length exceeds.
3402	Message Response Timeout	1.	See communication configuration. See if there is blocking / unstable network.
3403	Message Length > Max Buffer	1.	Sending data exceeds the limit.
3404	MODBUS Message Bytes / ID Error		
3405			
3406			
3407	MODBUS Return Para Error		
3408	MODBUS Return Doesn't Support		
3410	Receive Data in Blocking		
3420	MODBUS Salve Returns		
3405 3406 3407 3408 3410	Error MODBUS Return Para Error MODBUS Return Doesn't Support Receive Data in Blocking		

	Unsupported Function Code		
	MODBUS slave station returns		
3421	invalid function codes		
3422 3423	MODBUS Slave Return Address Space Error MODBUS Slave Return Data Length Error MODBUS Slave Return Length		<ol> <li>Master and slave addresses are not matched, please read &amp; write not existed register addresses, then set correct one.</li> </ol>
3424	Too Long		
3501	ZCAN Return No Sub-Card		
3502	ZCAN Return No Sub-Card Related Axis		
	PLC (C	ontroller Side)	
4001			
4002	Parameter Error		
4003	Unknown Type		
4004	Unknown Function	Unknown function is called, or the called function is not GLOBAL type.	Modify the syntax usage.
4005	Stack Too Many STL		
4006	Too Many Stakes		
4007	Too Complex Program, Too Much BLOCK		
4008	No Stack BLOCK		
4009	No Stack STL		
4010	No Stack	when using MPP and MPS commands, MPP > MPS	Determine error position, then modify the script., MPP used times should be same as MPS.

	MC Can't Be in the Middle of		
4011	STL		
4012	MC Level Error		
4013	STL Only Can Be Main File Main Task		
4014	File Content Error		
4015	RET Must Be after STL		Correct it.
4016	> Register Range		
4017	< register Range		
4018	L Not Defined		
4019	Don't Support G Code Function		
4020	COTO Can't Cross PLC & BASIC	In Basic, you used GOTO to jump to PLC.	Use syntax correctly.
4021	Only One PLC Main Task		
4022	Syntax Error		
4023	FOR NEXT Error, Mismatched		Use syntax correctly.
4024	FOR NEXT Error, no NEXT		Use syntax correctly.
4026	FOR MC Mixed Use		Use syntax correctly.
4027	FOR STL Mixed Use		Use syntax correctly.
4030	Must Use in PLC Main Task		
4031	Must Use in Interrupt		
4032	Too Less Parameters		
4033	Too Many Parameters		
4034	Multiples of 8		
4035	Register Mark Error		
4036	Register Type Error	STL command and others use wrong register type	Determine alarm position and correct the script.
4037	Too Many LV		
4038	Read-Only		
	PLC	C (PC Side)	
4501			
4502			
4503	Insufficient Memory	The memory	Optimize the memory.

		exceeds allowed	
		The soft component	
4504	Reflow to Busbar	is connected direct,	Delete the connection that
4504	Kellow to Busbar	and parallel to the	is not correct.
		busbar.	
		Direct connect, and	
4505	Reflow	parallel to other soft	Delete the connection that
4505	Kenow	components without	is not correct.
		the soft component.	
	AND Command Can't Connect	No other elements	Add the component, or
4506	to Busbar Directly.	between AND type	delete this ladder diagram.
		and busbar.	6
		No output command	
4510	Not Full, No OUT Command in	is connected after	Determine where is
	the Right	ANB command or	wrong, then correct it.
		after the component.	
4511	In the Rightmost, it is Not OUT		Check if it is output type
	Туре.		in the rightmost side.
		2 output types of	Check if they are
4512	Rightmost Must Be Separate	components that are	connected in the
		in the rightmost side	rightmost.
		are connected.	
		Output types' component is not the	
		rightmost side of	Check if there is output type is in the middle or left.
4513	OUT Type Must Be in Right Most	ladder diagram, but	
		in the middle or left	
		side.	
			Check where the
4514	Unsupported Command Type		unsupported type is, and
1011	Chsupported Command Type		
' I			correct it.
4515	Inside Error		
4515 4516	Inside Error Inside Error		
		There is no any	Assign the register that is

		register.	
4518	DOT Value Exceed		
4519	Register Exceed	Called register exceeds the number of registers.	Modify the usage range of the calling register to be within the specified number range
4520	Too Many Characters		
4521	Register Type Error	Script used register type is not controller standard register type.	Check if the used register type is consistent, valid.
4522	Register Value Error	Register value input by the component / command is wrong.	Find the wrong component or command (wrong register value).
4523	Too Many Registers		
4524	Too Less Registers	The component didn't set the register.	Add register for the component or command that didn't set register.
4525	STL Usage Error		
4526	RET Usage Error	RET should be used after STL.	
4527	RET Repeat	RET command or component is used again.	Delete one.
4528	END / LBL Position Error		
4529	Function Can't Be Connected to Busbar Directly		
4530	No Push when Out the Stack	when using MPP and MPS commands, MPP > MPS	
4531	Too Many MPS	Keep using MPS over 11 times	Determine the usage times, and correct it.
4532	Register Type Usage Error	You used supported register type.	Use correct register type.

			I
		No others after	
		ANB, real numbers	
4533	ANB Error, Insufficient Blocks	of used is not	
		consistent with	
		needed.	
		No others after	
		ORB, real numbers	
4534	ORB Error, Insufficient Blocks	of used is not	
		consistent with	
		needed.	
	AND Error Con't Combine of	After OUT	
4535	ANB Error, Can't Combine after OUT	command, then you	
	001	call ANB.	
	ODD Emen Con't Combine of	After OUT	
4536	ORB Error, Can't Combine after OUT	command, then you	
		call ORB.	
		AND command or	
	AND Can't Be Connected to Busbar Directly	other components	
		are connected to	Determine where is the
4537		busbar directly,	wrong position, then
		before, there is no	correct the script or LAD.
		other command /	
		component.	
		OR command or	
		other components	
	OR Can't Be Connected to	are connected to	Determine where is the
4538		busbar directly,	wrong position, then
	Busbar Directly	before, there is no	correct the script or LAD.
		other command /	
		component.	
4539	OR Can't Be after OUT		
4540	STL & MC Can't Be Shared		
45.43	MC Can't Be Connected to		
4541	Busbar Directly		
4542	@Register Without Brackets		
	1		

4543	Note Error		
4544	Too Many LAD Columns	LAD columns > controller allowed	Too many LAD columns, please delete some.
4545	OUT Type Can't Be Connected to Busbar Directly.	Outputtypescomponent connectsto busbar directly.	Delete the corresponding OUT type component.
	1	HMI	
5000	LCD No. Error	HMI running tasks > controller allowed.	See if it is more than allowed (allowed can be known from ?*max – max_hmi), more, please select other controllers.
5001	HMI File Error	Inside error	Please contact with us.
5002	LCD No. Conflict	Multiple HMI file use same LCD No.	See if there ae same LCD No.
5003	Unsupported Object	Inside error	Please contact with us.
5004	Insufficient Memory	Too small memory setting for VPLC7 or other controllers don't support.	<ol> <li>For VPLC7XX, adjust "config hmisize".</li> <li>Contact with us.</li> </ol>
5005	"Control" Error	One abnormal "layer" value set by PC software is transferred.	Contact with us.
5006	Window No. Exceed	You set too large window No.	<ol> <li>Set it as a small one.</li> <li>If it is full, contact us.</li> </ol>
5007	Invalid Window No.	<ol> <li>In base window, you opened one window that doesn't exist.</li> <li>One invalid window is opened by the HMI_SHOW -</li> </ol>	Check if you opened the base window that had been opened by the command already.

		WINDOW.	
5008	HMI Content Error	Inside error	Contact with us.
5009	Same Window No.	Two HMI files or several windows use same window No.	See if they are same.
5010	Object Property Lost	Inside error	Contact with us.
5011	>1 KeyboardShow in Keyboard		
5012	ACTION Type Error	Because action value is abnormal in PC configuration.	Contact with us.
5013	Too Many Events		
5014	Back to Last Window Failed		
5015	Can't OFF Base Window		Check HMI file's base window, and check script "close" logic.
5016	No Related Character in Font	This will not alarm, but the character that can't be known will not be shown.	
5017	Must Use in HMI Task		
5018	Wrong Control Type	Because the control	Check parameter
5019	Control ID Not Exist	is operated by the command but it doesn't support.	configuration and related HMI window, see if they are consistent.
5020	Control ID Conflict	Different controls are set same component No.	Correct it.
5021	LCD No. Error		
5022	No Valid LCD Found	]	
5023	LCD No Opened	PC host computer	PC host computer error
5024	LCD No Data	error	
5025	Program Reset	]	
5026	LCD Opened	]	
5027	Not Network LCD	-	ror (300 uses internal LCD uses network LCD No.)

5028	Unsupported Compress	Reserved	Reserved
5029	Unsupported Color Depth	Controller doesn't support that.	Contact with us.
5030	Unsupported Data Type	Inside error	Contact with us.
5031	Device No. Error		
5032	LCD_SET Can't Use	Reserved	
5033	Don't Set REDRAW in DRAW	In draw function, you used set_redraw command.	"set_redraw" is one refresh function that must be used in refresh function.
5034	DRAW Function Only Can Be DRAW	"draw" command is used in refresh function.	Draw command (usually the beginning of draw) must use in draw function.
5035	Can't Call in DRAW	The command that operates control is used in draw function.	Commands that operate control to show, control state can't be used in draw function.
5036	Fixed Inner LCD Resolution		
5037	LCD Resolution Beyond	Set resolution > controller allowed	You can check x and y parameter (?*max – max_hmi), that is, the resolution size.
5038	Library File Name Error	Called library file name is wrong while using text library.	Check the control "text library" or the command, correct the name.
5039	Too Many Characters		
5040	Object Property Lost	Inside error	Contact with us
5041	No KeyboardShow in keyboard		
5042	Too Many States		
5043	Unsupported Draw Property		
5044	Remote Communication Device Name Error		
5045	Remote Communication Data No Update		
5101	Invalid Date Format	You used invalid	Use correct data format: %

		_	
		format while using	+ letter
		SYSTEM command	
		(like, not the format	
		of % + letter).	
		You use the	
		command to operate	
5102	Control Not Exist	the control that	Use correct control ID.
5102	Control Not Exist	doesn't exist (such	Use confect control ID.
		as, online change	
		control text).	
			Check the point numbers,
5103	Too Many / Less Polygon Points	The polygon points	and better to use
		is <2 / >32.	DRAW_POLYGONS.
		You used auto-	Note to release ID No. that
		allocate ID syntax	is not used, if you need
5104	No Free Scroll Bar	while initializing the	more, please contact with
		scroll bar.	us.
		You called invalid	
		scroll bar ID when	
5105	Invalid Scroll Bar ID	using scroll bar	Use correct initialization
		command (such as,	scroll ID.
		you used ID (>31)).	
		Controller used	
5106	Unsupported Function	unsupported HMI	Contact with us to see if
5100		control / command.	there is new firmware.
		You don't import the	Please use CAD control to
		image while CAD	
5107	Not Load Image		
		command is	graphics, then do other
		executing.	CAD operations.
		Usually appears	
<b>F100</b>		when importing	<b>D</b>
5108	File Broken	broken format of	Reexport broken bin file.
		strong formats (bin	
		file).	
5019	Menu Para Error		

5110	Not Enough table Space when Exporting, then Overflow		Make table space large through the command or change one controller if now it is the max space.
5111	Unsupported Data Type		Change as correct data type.
5112	Unsupported Control Type		Change control ID, and use correct control.
5113	Array Overflow	Exceed max value	Check array size, and see whether transferred array max value exceeds or not.
5114	Inside Error	Error in HMI inside	Contact with us.
5115	Channel Overflow		
	Ether C.	AT Bus Errors	·
6000	EtherCAT Module Error, SLOT No. Error		
6001	Inside Error, Unsupported Function		
6002	No Stack		
6003	Unknown		
6004	"mbox" Occupied		
6005	Parameter Error		
6006	Supported Device Types Exceed		
6009	NODE Operated Exceed		
6010	Slave State Error		
6011	Unsupported Slave		
6012	Insufficient Resources		
6013	Slave Device Respond Timeout		Slave doesn't respond when master writes data several times for a long time (like, >400ms), please check from drive error, time when problem appears, and controller

			performance, etc.
6014	Insufficient Buffer		
6015	Respond Package WKC Error		Slave returned WKC counts is wrong, please check specific reason.
6016	Too Long SDO Respond Content		Slave respond SDO length is too long, please check if the sent SDO data type is correct.
6017	SDO Respond Error		The transmission of the SDO read or write operation is actively rejected by the servo and terminated. The cause of the error needs to be analyzed in combination with the specific SDO content sent, such as reading a data object that does not exist in the data dictionary, or writing PDO data during operation.
6018	SDO Respond Data Length Error	Usually because sent SDO data type is incorrect or unsupported.	Check SDO data type, if it is correct.
6019	WKC Timeout		SlavereturnedWKCtimeout,pleasecheckfromdriveerror,controllerperformance,timewhenproblemappears, etc.
6020	STATE Switch Timeout		SoE state switching timeout, that is, master doesn't get correct

			1.0 1 0
			respond from slave after s
			long time requesting on
			switch the state, please
			check from drive error,
			controller performance,
			time when problem
			appears, etc.
			The transmission of the
			SDO read or write
			operation is actively
		Data dictionary	rejected by the servo and
		reading or writing	terminated. The cause of
6021	SDO ABORT, Drive Return Error	error / write drive	the error needs to be
		function that is not	analyzed in combination
		supported.	with the specific SDO
			content sent. Generally,
			because sent incorrect /
			unsupported SDO.
6022			
6023	NODE PROFILE Error		
6024	Axis PROFILE Error		
			Bus axis numbers exceed
6025	Too Many Axes		allowed, please check and
			correct.
6026	Exceed Custom PDO Buffers		
6027	Too Many Custom Numbers		
	Don't Modify PROFILE after		
6028	ON		
			Check "profile" setting,
6029	PDO Package Length > System		for functions that will not
	Allowed		use, don't configure PDO.
6030	Scan First		
6031	Too Many Devices		
6032	Over buff Length		
6035	Preset & profile Conflict		
	r r r r r r r r r r r r r r r r r r r		

6036	Too Many PDO	
6037	Special Profile, Drive doesn't	
0037	Support it.	
6038	"preset scan" Not Matched	
6039	"preset" Empty	
6040	No Scan	
6042	Device Not Support	
6045	Mail Timeout	
6046	Data Lost	
6047	Data Type Error	
6048	PDO Not Support	
6049	Unsupported Sub-Module	
6050	Too Many Submodules	
6051	Unknown Submodule	
6055	Operated PDO Type Length Not	
0055	Matched	
6056	PDO R & W Content Not Found	
6057	PDO Key Content Error (like,	
	DRIVE_STATUS)	
6058	AL State Reading Error	
6059	AL State Error, Non-OP State	
6060	Drive Error	
6061	Insufficient XmlEsi Buffer	
6065	IO PDO Must Byte Offset (≠0)	
6066	IO PDO Not Continuous	
6067	DA PDO Type Conflict, Only	
0007	Can Be Single Type	
6068	ZML File SM Info Lost	Correct xml file, and
6069	ZML File Key Info Lost	convert it to zml again,
		contact with us to add.
6070	ZML File Needs More Space	
6071	Wrong ECAT Module Numbers	
6072	ZML File Message Repeat	
6073	Module startup Doesn't Support	
0075	CA Method	

6208	RTEX Drive ID Conflict		
6209	Scan Timeout	Usually because cable.	
6210	RTEX Initialize Failed		
6211	RTEX Scan Result Error		
6212	RTEX Device Type Error		
6213	RTEX Message Timeout		
6214	RTEX SDO Message Error		
6500- 6520	EIO Error		
6501	PDO Length Settings Error		
6502	Mail Length Settings Error		
6503	Don't Modify RO Data Dictionary		Read only data dictionary can't be modified.
6504	Too Many Data Dictionary Arrays		
6510	PDO Written Content Error, First Level Index Content Error		
6511	PDO Data Content Repeat		
6512	PDO Content Error, Dictionary No. Error		
6513	PDO Content Error, Dictionary Sub No. Error		
6514	PDO Content Error, Dictionary Length Error		
6515	Too Many PDO		
6516	Slave AML Alarm		
6517	Slave WDOG Alarm, PDO Package Loss All the Time		
		C Module	
7003	Unsupported Syntax when Analyzing		
7006	No Info about which Axis & Channel of The Command		

7000	ACOS Operation Command	
7008	Parameters Out of Range	
7009	ASIN Operation Command	
/009	Parameters Out of Range	
7010	The Divisor Can't Be 0	
7011	The Exponent Must Be an Integer	
/011	When the Base is Negative.	
		Because there are
7012	Character Error	characters that can't
		be analyzed.
7014	Wrong Digit Format	
7032	Inner Syntax Error	
7034	Flat Switching Error	One wrong flat
	g	value is transferred.
7037	Unsupported Operation	
	Command	
7041	Feed Speed is 0, Can't Run G1	
7043	Feed Speed is 0, Can't Run G2,	
	G3	
7057	Appear Unused Axis Parameter	
7066	Too Long of This Line Code	256 characters can
	-	be edited in one line.
7069	Arc Start Point = End Point by	
	Radius Method	
7077	No "=" in Assignment Command	
7078	Illegal G Code	
7096	Lack "[" after ATAN	
7097	Lack "[" after Operation	
	Command	
7098	Illegal N Code > 999999	
7100	Illegal M Code	
7101	Arc Para R & IJK Mixed Use	
7102-	Muti Axis Specified Info (A~F,	
7119	H~L, P~Z, 7012=A、 7107=H、	
	7112=P), Can't Know Which One	

7121	Negative Can't Be Squared	
7124	Negative in G Code	
7127	Negative in M Code	
7132	Brackets Embedded in One Bracket for Noting	
7133	Syntax Error, No Read Value	
7134	Digit Lost	
7135	Read Value is Not Integer	
7136	Inner Syntax Error	
7142	Illegal Para & Variable Address	
7147	Arc Parameter Lack	
7153	Too Small Arc Radius to Arrive End	
7156	ATAN No "/"	
7161	Inner Syntax Error	
7168	$\geq$ 2 Same Type Command of G	
7169	≥2 Same Type Command of M	
7170	Can't Open NC File	
7171-	Inner Syntax Error	
7188		
7196	0 / - Value in LN	
7197	Arc Radius R is 0	
7200	Empty Analysis Code	
7201	No Symbol, Integer Can't Be with "+ / -" Symbol.	
7202	No Integer (without symbol) Read	
7203	No Symbol, Read Number Can't Be with "+ / -" Symbol.	
7204	No Real Number (without symbol) Read	
7220- 7246	Unused Key Words in Code Line, 7220-7228: XYZABCUVW, 7229-7231: FST, 7232-7241: EDHIJKLPQR	

7301	Command Type / Command		
	Code Not Exist		
7302	Register Command Existed		
1302	Already		
7303	Microprogram No. Exceed		
7304	Command Group No. Exceed		
7305	Command Code Exceed		
7306	Expand Type Not Exist		
7307	Command Priority Exceed		
7308	Empty Command (for the function "call")		
7309	Command Not Exist		
7011	Command of Priority 0 & Others		
7311	Appear at the Same Time		
	Here are Multi Motion		
7312	Commands / Commands with		
	Coordinate Para Synchronously		
7313	Inner Error		
7314	Inner Error		
7315	Inner Error		
7319	Too Many Parameters Checked		
7320	Lack Parameter to Check		
7350	Illegal Parameter Checking		
7351	Undefined G Code		
7352	Undefined Length Unit		
7353	Undefined Type / Mode		
7354	Inner Error		
7355	Unknown Coordinate Axis	You used unset axis.	
7356	No p, IJK Para for Scaling		
, 550	Command		
7357	Scaling Command's Para P & IJK		
1331	Mixed Use		
7358	Inner Error		
7359	Tool Compensation Radius > the		
1337	Cutting Arc Radius		

7360	Inner Error, Preset GOTO Numbers > Allowed (256)		
7361	Invalid Channel No.		
7362	Target Channel is Running Other Tasks		
7363	No Run Task of Target Channel	Pause / stop the free channel task	
7364	Can't Switch Work Plane, Unit after ON Tool Compensation / Coordinate Rotate Function		
7365	Can't Use Gsub Expand Command in "Online Output"		
7366	G04.1 Q_ Transferred Wrong Q Arguments	Q arguments doesn't contain its own channel.	
		Transferred channel No. by Q arguments is out of the range.	
7367	G04.1 Q_ Wait P Signal Error	Channels that wait mutually, signal P are different.	
7370	No WHILE / DO for Microprogram		
7371	WHILE & END Should Be Together		
7372	WHIE > Allowed Layers (5)		
7373	Not Found "GOTO" Target Address		
7374	Subprogram Calling > Allowed Layers Embedded	8 layers can be embedded at most.	
7375	Empty Subprogram File		
7376	Subprogram File Oversize	<10k	
7379	Unsupported Microprogram No.		
7380	Mian Axis is In Motion of Feed Axis, Can't Modify Main Axis	When the main axis and feed axis are	

	Speed & Ratio	same axis, please	
		switch motion and	
		speed well.	
7400	Parameter Error		
7401	Para Address No Open		
7402	Invalid Para Address		
7403	Invalid Para Value	Parameter value exceeds valid range.	
7404	No Permission to R & W Para		
7405	Can't Modify Para Description		
7407	Para Form File Reading Error		
7408	Parm Form File Writing Error		
7410	G Code File (Expand Type) is Full	Max: 12 expansion names	
7411	Expand G Code File Type Failed	Transferred invalid suffix name	
7412	Para Form File ON Failed		
7413	Dynamically Expand Para Failed	Expand the number of parameters that can be expanded, parameter address is out of range.	
7414	System Variable Unused	Access invalid system variables	
7421- 7436	Your Assigned Axis Direction, which Exceeds the Range of the First Journey (soft limit)		
9912	Pull-Down List, Control Call Function Error		
	PC	Side Error	
20000	Offset Error from PC		
20001			

20002	Wrong Parameter		
20003	Timeout	fifo buffer blocked	
20004			
20005			
20006	Operating System Error		
20007	Serial Port Open Failed		
20008	Ethernet Open Failed		Check if IP is correct, see if it can be scanned, the network link is normal?
20009	Handle Error		Check if the network
20010	Sending Error		breaks because of wiring / unstable network.
20011	File Error: Unsupported Head		
20011	File, Unrecognizable		
20012	File Length Error		
20013	Too Many Filename		Check project related filename, whether it is too long, if yes, then correct.
20014	File Not Exist		Check project file's related folder, maybe one file lacks, usually it appears when deleted the file without IDE operation.
20015	ZLB Library File Error		
20016	File Not Compile	Usually because PLC file is not compiled.	Generally, PLC file has no compile.
20018	Firmware File Error	Usually because firmware file is broken.	
20020	Incorrect Firmware File		Checkifupdatedfirmwareisconsistentwith controller model.
20021	Unsupported Function		1. Check the controller

			2.	model, whether it supports this function Check if there is new function for the controller, if yes, try to update firmware.
20022	"mmap" Failed	RT memory config		
	RT LOCAL Open Failed	is too large.		
20023	"xplcterm" Runs Incorrectly / No Enough Permission			
20024	No Card / No Drive in PCI Link			
20025	Drive Enumerate Failed			
20026	Interface Enumerate Failed			
20027	Unknown			
20028	PCI Card Not Exist			
20029	Too Many PCI Cards Connected			
20030	Insufficient IN Buffer Length		1.	Check if defined function name, para name are too long. Check the firmware version, if it is low, then this length of IN command name is not supported.
20031	Password Protection, Return after LOCK			
20032	Password Protection, Too Fast to Unlock.			
20033	File Open Failed			
20034	Unsupported Function			
20035	Too Long Message			
20036				
20037	Too Many Parameters			
20038	Report Para Numbers Error			
20039	No Assigned Para in Report Para			

20040	MotionRT Connect Failed	
20040	MotionRT Not Opened	
20100	Response Buffer Length Not	
20100	Enough	
20000	Above 30000 – ZAUX Auxiliary	
30000	Library Errors	