

Drive Messages

Application Note AN102

Triamec drives generates errors, warnings and messages, which are propagated to the user. This application note describes all messages and suggests solutions.

The list contains a class of *ErrorReactions*. These are described in the last chapter.

This list is generated for firmware release 4.26.

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1 Triamec Drive Messages

The messages in this chapter are related to an axis or its servo drive. In TwinCAT, the sourceId 3702 is used and the parameter %1 is always the *logical axis ID* number. Warning messages start at number 4096, Error messages start at number 6144.

4161	Message	Firmware update not done (Axis %1)
	Description	The firmware update of this component was not done
	Solution	Repeat the firmware update
	Details	Class:Warning; Firmware:FW4.20.0-
4500	Message	Enable rejected (Axis %1)
	Description	An Enable request was rejected. Either the axis-state was unsuitable or an error was pending or a timeout occurred when sending the request
	Solution	Make sure the device and the encoder is ready for enabling and no error is pending
	Details	Class:Warning; Firmware:FW4.12.14-
4510	Message	Homing command rejected because of pending error (Axis %1)
	Description	The homing command was rejected because of a pending error
	Solution	Clear the error and try again
	Details	Class:Warning; Firmware:FW4.16.0-
4513	Message	Gantry align before enable timeout detail (Axis %1)
	Description	Could not complete alignment of second axis before activating Mimo Gantry
	Solution	Clear the error and try again. The path planner command may have been overwritten during alignment.
	Details	Class:Warning; Firmware:FW4.24.0-
4515	Message	Invalid axis commutation, enable the axis before persistence save (Axis %1)
	Description	An invalid axis commutation configuration has been persisted
	Solution	Make sure to persist parameters only when valid commutation is present.
	Details	Class:Warning; Firmware:FW4.24.0-
4519	Message	PathPlanner command rejected in axis state (Axis %1)
	Description	The PathPlanner received a command. But this command is not allowed in this state
	Solution	Make sure the axis is in a legal state
	Details	Class:Warning; Firmware:FW4.23.0-
4520	Message	PathPlanner command rejected because of pending error (Axis %1)
	Description	The PathPlanner received a command. But this command is not allowed when an error is pending
	Solution	Reset the error
	Details	Class:Warning; Firmware:FW4.16.0-

4521	Message	PathPlanner command rejected because parameter zero acceleration (Axis %1)
	Description	The PathPlanner received a command which was rejected because the Path-Planner AccelerationMaximum was zero
	Solution	Set Parameters.PathPlanner.AccelerationMaximum to the correct value
	Details	Class:Warning; Firmware:FW4.16.0-
4522	Message	PathPlanner command rejected because parameter zero deceleration (Axis %1)
	Description	The PathPlanner received a command which was rejected because the Path-Planner DecelerationMaximum was zero
	Solution	Set Parameters.PathPlanner.DecelerationMaximum to the correct value
	Details	Class:Warning; Firmware:FW4.16.0-
4523	Message	PathPlanner command rejected because parameter zero velocity (Axis %1)
	Description	The PathPlanner received a command which was rejected because the Path-Planner VelocityMaximum was zero
	Solution	Set Parameters.PathPlanner.VelocityMaximum to the correct value
	Details	Class:Warning; Firmware:FW4.16.0-
4524	Message	Target Position out of Range (Axis %1)
	Description	The target position of a move was out of the software limits
	Solution	Check Axes[].Parameters.PathPlanner.PositionMaximum/Minimum
	Details	Class:Warning; Firmware:FW4.20.0-
4525	Message	LimitSwitch reached (Axis %1)
	Description	A limit switch is covered
	Solution	Move out of the switch and check Axes[].Parameters.Motor.LimitSwitch/
	Details	Class:Warning; Firmware:FW4.20.0-
4526	Message	PositionError0 tight (Axis %1)
	Description	The encoder0 positionError exceeded Parameters.PositionController.Con- troller0.PositionErrorWarning *
		Parameters.PositionController.Controller0.PositionErrorLimit
	Solution	Consider Parameters.PositionController.Controller0.PositionErrorWarning
	Details	Class:Warning; Firmware:FW4.22.0-
4527	Message	PositionError1 tight (Axis %1)
	Description	The encoder1 positionError exceeded Parameters.PositionController.Con- troller1.PositionErrorWarning *
		Parameters.PositionController.Controller1.PositionErrorLimit
	Solution	Consider Parameters.PositionController.Controller1.PositionErrorWarning
	Details	Class:Warning; Firmware:FW4.22.0-

4528	Message	Motor I2t tight (Axis %1)
	Description	Signals.CurrentController.ContinuousCurrentDiagnostics.MotorU/V/W exceeded Parameters.Motor.NominalCurrentWarning
	Solution	Consider the accumulated maximum Signals.CurrentController.ContinuousCurrentDiagnostics.MotorMax after clearing with General.Commands.ResetDiagnostics
	Details	Class:Warning; Firmware:FW4.22.0-
4529	Message	Motor peak current tight (Axis %1)
	Description	Signals.CurrentController.ActualCurrentQ exceeded Parameters.Motor.-PeakCurrentWarning * Parameters.Motor.PeakCurrent
	Solution	Consider Parameters.Motor.PeakCurrentWarning
	Details	Class:Warning; Firmware:FW4.22.0-
4530	Message	PathPlanner streamFeed command unknown or start in illegal state (Axis %1)
	Description	The stream feed command is unknown
	Solution	Update the firmware to correspond to the control system release
	Details	Class:Warning; Firmware:FW4.24.0-
4531	Message	PathPlanner streamFeed delayed timestamp (Axis %1)
	Description	The stream feed timestamp is outdated or more than 1s in the future
	Solution	Check, if the control system is not overloaded
	Details	Class:Warning; Firmware:FW4.24.0-
4540	Message	EtherCAT Touch Probe not supported function (Axis %1)
	Description	Multiple trigger sources 0x31 and continuous triggering 0x03 are not supported
	Solution	Change to a supported configuration and re-enable
	Details	Class:Warning; Firmware:FW4.23.0-
4737	Message	AnalogEncoder Opt amplitude error <25% (Axis %1)
	Description	Analog encoder amplitude smaller than 25% detected (Option Module encoder).
	Solution	Adjust the alignment of the encoder head to the scale according to the instructions of the manufacturer. Clean the scale.
	Details	Class:Warning; Firmware:FW4.13.13-4.18
4738	Message	Encoder amplitude warn <50% (Axis %1)
	Description	Encoder amplitude smaller than 50% detected with the error mask 0x3 enabled in Axes[].Parameters.PositionController.Encoders[].DataFormat. Check counter in Axes[].Signals.PositionController.Encoders[].Diagnostics.Counters.AmplitudeWarning.
	Solution	Adjust the alignment of the encoder head to the scale according to the instructions of the manufacturer. Clean the scale. More information on the DataFormat register can be found in AN107.
	Details	Class:Warning; Firmware:FW4.13.13-

4739	Message	AnalogEncoder Opt amplitude warn <50% (Axis %1)
	Description	Analog encoder amplitude smaller than 50% detected with the error mask 0x3 enabled in Axes[].Parameters.PositionController.Encoders[].DataFormat (Option Module encoder).
	Solution	Adjust the alignment of the encoder head to the scale according to the instructions of the manufacturer. Clean the scale. More information on the DataFormat register can be found in AN107.
	Details	Class:Warning; Firmware:FW4.13.13-4.18
4740	Message	AbsoluteEncoder flag1 (Axis %1)
	Description	Absolute encoder flag1 is enabled and triggered an error.
	Solution	Determine and solve the cause of the encoder error. Consider disabling flag1 using Axes[].Parameters.PositionController.Encoders[].DataFormat. More information on the DataFormat register can be found in AN107. Check counter in Axes[].Signals.PositionController.Encoders[].Diagnostics.Counters.DigitalFlag1.
	Details	Class:Warning; Firmware:FW4.13.13-
4741	Message	AbsoluteEncoder Opt flag1 (Axis %1)
	Description	Absolute encoder flag1 is enabled and triggered an error (Option Module encoder).
	Solution	Determine and solve the cause of the encoder error. Consider disabling flag1 using Axes[].Parameters.PositionController.Encoders[].DataFormat. More information on the DataFormat register can be found in AN107.
	Details	Class:Warning; Firmware:FW4.13.13-4.18
4742	Message	AbsoluteEncoder flag2 (Axis %1)
	Description	Absolute encoder flag2 is enabled and triggered an error.
	Solution	Determine and solve the cause of the encoder error. Consider disabling flag2 using Axes[].Parameters.PositionController.Encoders[].DataFormat. More information on the DataFormat register can be found in AN107. Check counter in Axes[].Signals.PositionController.Encoders[].Diagnostics.Counters.DigitalFlag2.
	Details	Class:Warning; Firmware:FW4.13.13-
4743	Message	AbsoluteEncoder Opt flag2 (Axis %1)
	Description	Absolute encoder flag2 is enabled and triggered an error (Option Module encoder).
	Solution	Determine and solve the cause of the encoder error. Consider disabling flag2 using Axes[].Parameters.PositionController.Encoders[].DataFormat. More information on the DataFormat register can be found in AN107.
	Details	Class:Warning; Firmware:FW4.13.13-4.18
4744	Message	AbsoluteEncoder crc (Axis %1)
	Description	Absolute encoder CRC communication error. Check counter in Axes[].Signals.PositionController.Encoders[].Diagnostics.Counters.DigitalCrc.
	Solution	Check cable conditions and shielding.
	Details	Class:Warning; Firmware:FW4.13.13-

4745	Message Description Solution Details	AbsoluteEncoder Opt crc (Axis %1) Absolute encoder CRC communication error (Option Module encoder). Check cable conditions and shielding. Class:Warning; Firmware:FW4.13.13-4.18
4746	Message Description Solution Details	AbsoluteEncoder communication (Axis %1) Absolute encoder communication error. Check counter in Axes[].Signals.PositionController.Encoders[].Diagnostics.Counters.DigitalCommunication. Check cable conditions and shielding. Class:Warning; Firmware:FW4.13.13-
4747	Message Description Solution Details	AbsoluteEncoder Opt communication (Axis %1) Absolute encoder communication error (Option Module encoder). Check cable and connector conditions. Class:Warning; Firmware:FW4.13.13-4.18
4748	Message Description Solution Details	AnalogEncoder RangePhaseA (Axis %1) Encoder phaseA voltage out of range. Check counter in Axes[].Signals.PositionController.Encoders[].Diagnostics.Counters.OverrangePhaseA. Check cable and connector conditions. Class:Warning; Firmware:FW4.13.13-
4749	Message Description Solution Details	AnalogEncoder Opt RangePhaseA (Axis %1) Encoder phaseA voltage out of range (Option Module encoder). Check cable and connector conditions. Class:Warning; Firmware:FW4.13.13-4.18
4750	Message Description Solution Details	AnalogEncoder RangePhaseB (Axis %1) Encoder phaseB voltage out of range. Check counter in Axes[].Signals.PositionController.Encoders[].Diagnostics.Counters.OverrangePhaseB. Check cable and connector conditions. Class:Warning; Firmware:FW4.13.13-
4751	Message Description Solution Details	AnalogEncoder Opt RangePhaseB (Axis %1) Encoder phaseB voltage out of range (Option Module encoder). Check cable and connector conditions. Class:Warning; Firmware:FW4.13.13-4.18
4752	Message Description Solution Details	Encoder busy (Axis %1) Encoder is busy. Wait until the encoder is ready. Class:Warning; Firmware:FW4.18.2-
4753	Message Description Solution Details	Encoder Opt busy (Axis %1) Encoder is busy (Option Module encoder). Wait until the encoder is ready. Class:Warning; Firmware:FW4.18.2-4.18

4864	Message Description Solution Details	DC-Bus Voltage upper Limit (Axis %1) The DC-Bus voltage is above General.Parameters.DcBusVoltageUpperLimit or the LowerLimit parameter is larger than the UpperLimit parameter. Check the parameters and measure the power supply voltage. Class:Warning; Firmware:FW4.12.14-
4865	Message Description Solution Details	DC-Bus Voltage lower Limit (Axis %1) The DC-Bus voltage is below General.Parameters.DcBusVoltageLowerLimit. Switch on the power supply. If the error persists, check the parameters and measure the power supply voltage. Class:Warning; Firmware:FW4.12.14-
4866	Message Description Solution Details	PowerSupply warning (Axis %1) Supply lines are switched off during the charging phase or during operation. Not all phases available if not in SinglePhaseOperation mode. Check the wiring of the supply lines and, if not in SinglePhaseOperation mode, make sure that all three phases are available. Class:Warning; Firmware:FW4.12.14-
4867	Message Description Solution Details	Fieldbus not ready (Axis %1) The fieldbus is not connected or not functional. Check the fieldbus master state. If working with EtherCAT, check the settings for Distributed Clock of the master adapter. If working without fieldbus, set General.Parameters.Standalone to True. Class:Warning; Firmware:FW4.12.14-
4868	Message Description Solution Details	Power supply not ready (Axis %1) Internal power supply or brake resistor not ready. Check wiring and connector of the AC-Line input. Class:Warning; Firmware:FW4.12.14-
4869	Message Description Solution Details	PowerSupply BrakeResistor (Axis %1) The thermal model of the brake resistor issues an overload warning. Allow cooling down. Class:Warning; Firmware:FW4.12.14-
4870	Message Description Solution Details	Jitter 10kHz ! (Axis %1) The realtime engine issued a jitter warning. Limits are maintained. No action required. Class:Warning; Firmware:FW4.12.14-
4872	Message Description Solution Details	Persistent Register uri unknown (Axis %1) The persistency contains parameter data which is not known anymore in this firmware Decide, if the missing information can be ignored Class:Warning; Firmware:FW4.20.0-

4880	Message Description Solution Details	Safety STO warning (Axis %1) The STO circuit is open. Enabling is not possible. Close the STO circuit. Class:Warning; Firmware:FW4.12.14-
6145	Message Description Solution Details	HTTP Write failed from (Axis %1) HTTP file upload failed. Retry the upload and consider AN124. Class:Alarm; Firmware:FW4.12.14-
6146	Message Description Solution Details	HTTP GET 404 file not found (Axis %1) HTTP GET file not found. The browser requested an unknown file. Use the directory for a list of known files. Class:Alarm; Firmware:FW4.12.14-
6147	Message Description Solution Details	HTTP 400 Internal (Axis %1) HTTP GET request of the browser was inconsistent. Retry the request and consider AN124. Class:Alarm; Firmware:FW4.12.14-
6148	Message Description Solution Details	HTTP POST 400 Boundary (Axis %1) HTTP GET request without boundary keyword. Retry the request or use another browser Class:Alarm; Firmware:FW4.12.14-
6149	Message Description Solution Details	HTTP POST 400 ContentLength (Axis %1) HTTP GET request without ContentLength keyword. Retry the request or use another browser. Class:Alarm; Firmware:FW4.12.14-
6150	Message Description Solution Details	HTTP POST 400 file name (Axis %1) HTTP POST file name has more than 31 characters. Use a filename smaller than 31 characters. Class:Alarm; Firmware:FW4.12.14-
6151	Message Description Solution Details	HTTP POST 404 file open (Axis %1) HTTP POST file upload to unknown destination. Use the directory for a list of known destination. Class:Alarm; Firmware:FW4.12.14-
6152	Message Description Solution Details	HTTP POST 413 Disk Space (Axis %1) HTTP POST file to be uploaded is too large. Check for the maximum file size in the directory. Class:Alarm; Firmware:FW4.12.14-
6153	Message Description Solution Details	HTTP POST 413 file write (Axis %1) The file to be written is not writable anymore. Retry the upload and consider AN124. Class:Alarm; Firmware:FW4.12.14-

6154	Message Description Solution Details	HTTP POST 400 Early End (Axis %1) HTTP POST file write was finished earlier than expected. Retry the upload. Class:Alarm; Firmware:FW4.12.14-
6155	Message Description Solution Details	HTTP POST 408 Timeout (Axis %1) HTTP POST file upload did not continue in time. Retry the upload. Make sure, there are not too many parallel upload sessions. Class:Alarm; Firmware:FW4.12.14-
6156	Message Description Solution Details	HTTP Error callback (Axis %1) TCP connection error. Open a new connection. Class:Alarm; Firmware:FW4.12.14-
6157	Message Description Solution Details	HTTP DELETE 404 file not found (Axis %1) HTTP DELETE request for unknown file. Consider the directory for a list of known files as described in AN124. Class:Alarm; Firmware:FW4.12.14-
6158	Message Description Solution Details	HTTP POST 503 file rejected due to flash wear protection. Retry later (Axis %1) The flash wear protection prevents writing to persistent memory. Let the time stated in the error pass before writing to persistent memory again. In the mean time consider to disable the table persistency (AN 124). Class:Alarm; Firmware:FW4.12.14-
6159	Message Description Solution Details	HTTP Error socket format (Axis %1) Wrong format of the websocket. Check the format of the websocket. Class:Alarm; Firmware:FW4.12.14-
6165	Message Description Solution Details	Parameter change prohibited in motion (Axis %1) Parameter change in PathPlanner prohibited while in motion (move absolute, relative or coupled motion). Stop the motion and retry. Class:Alarm; Firmware:FW4.12.14-
6170	Message Description Solution Details	EoT connection (Axis %1) Too many concurrent file accesses over USB or Tria-Link. Reduce the number of concurrent accesses. Class:Alarm; Firmware:FW4.12.14-
6171	Message Description Solution Details	EoT Sending aborted (Axis %1) File access over USB or Tria-Link interrupted. Retry. Class:Alarm; Firmware:FW4.12.14-

6172	Message Description Solution Details	EoT Receive code (Axis %1) File access over USB or Tria-Link interrupted. Retry. Class:Alarm; Firmware:FW4.12.14-
6173	Message Description Solution Details	EoT connection (Axis %1) File access over USB or Tria-Link interrupted. Retry. Class:Alarm; Firmware:FW4.12.14-4.23.0
6175	Message Description Solution Details	Ethernet unknown Ip4 setting (Axis %1) Illegal value in parameter General.Parameters.Ethernet.Ipv4Setting Choose an IPv4 mode known by the firmware. Class:Alarm; Firmware:FW4.12.14-
6176	Message Description Solution Details	TCP callback (Axis %1) TCP connection aborted. Retry the TCP connection. Class:Alarm; Firmware:FW4.12.14-
6177	Message Description Solution Details	TCP Output (Axis %1) Internal error with a TCP send callback. Retry the TCP connection. Class:Alarm; Firmware:FW4.12.14-
6180	Message Description Solution Details	EtherCAT CoE unknown (Axis %1) EtherCAT tried to write or read a CoE register which is unknown Check the PLC source code to only access valid registers Class:Alarm; Firmware:FW4.12.14-
6181	Message Description Solution Details	EtherCAT CoE write read-only (Axis %1) EtherCAT tried to write to a read-only CoE register Check the PLC source code to only write to registers with write access. Class:Alarm; Firmware:FW4.12.14-
6182	Message Description Solution Details	EtherCAT CoE write error (Axis %1) Writing the CoE register failed Check the PLC source code for valid register addresses. Class:Alarm; Firmware:FW4.12.14-
6183	Message Description Solution Details	EtherCAT does not allow BridgeMode (Axis %1) The parameter General.Parameters.Bridge is active. Set this parameter to Disabled on EtherCAT drives. Class:Alarm; Firmware:FW4.12.14-
6185	Message Description Solution Details	EtherCAT CoE read error (Axis %1) Reading a CoE register failed. Check the PLC source code for valid register addresses. Class:Alarm; Firmware:FW4.12.14-

6186	Message Description Solution Details	EtherCAT PDO Out Ext unknown content (Axis %1) A PDO Out entry contains an unknown URI. Change the PDO entry in General.Parameters.EtherCAT or in the TwinCAT startup settings. Class:Alarm; Firmware:FW4.12.14-
6187	Message Description Solution Details	EtherCAT PDO In Ext unknown content (Axis %1) A PDO In entry contains an unknown URI. Change the PDO entry in General.Parameters.EtherCAT or in the TwinCAT startup settings. Class:Alarm; Firmware:FW4.12.14-
6188	Message Description Solution Details	EtherCAT PDO Invalid SM IN Config (Axis %1) The number of bits cyclically exchanged by TwinCAT does not correspond to the number of bits defined by the PDO settings. Load the correct ESI file. Class:Alarm; Firmware:FW4.12.14-
6189	Message Description Solution Details	EtherCAT PDO Invalid SM OUT Config (Axis %1) The number of bits cyclically exchanged by TwinCAT does not correspond to the number of bits defined by the PDO settings. Load the correct ESI file. Class:Alarm; Firmware:FW4.12.14-
6190	Message Description Solution Details	EtherCAT stack error 0x%x states 0x%x -> 0x%x (Axis %1) The EtherCAT state machine got an error. Check the EtherCAT master message. Class:Alarm; Firmware:FW4.16.5-
6209	Message Description Solution Details	Hardware fault EMMC (Axis %1) The filesystem memory is not functional. Contact Triamec Motion AG. Class:Alarm; Firmware:FW4.12.14-
6210	Message Description Solution Details	File open failed (Axis %1) Failed to open a file. Ensure that the file is listed in the directory. Class:Alarm; Firmware:FW4.12.14-
6211	Message Description Solution Details	File read failed (Axis %1) Failed to read from a file. Verify that no write access is pending. Class:Alarm; Firmware:FW4.12.14-4.23.0
6214	Message Description Solution Details	File not ready (Axis %1) An internal persistence task prevents opening the file. Retry. Class:Alarm; Firmware:FW4.12.14-

6215	Message Description Solution Details	File checksum mismatch (Axis %1) File checksum mismatch. If this happens after transferring a file to the drive, ensure that the checksum is correct. If this happens during boot, a persistent file might contain a wrong checksum. Re-transfer and save the original file. Class:Alarm; Firmware:FW4.12.14-
6216	Message Description Solution Details	File no write access (Axis %1) File is read-only. Choose a file with write access. Class:Alarm; Firmware:FW4.12.14-
6217	Message Description Solution Details	File too large (Axis %1) File is too large. Reduce the file size. Class:Alarm; Firmware:FW4.12.14-
6234	Message Description Solution Details	Firmware update not allowed in STO (Axis %1) The update of the firmware failed because STO was active. Bridge STO then try again. Class:Alarm; Firmware:FW4.22.0-
6236	Message Description Solution Details	Firmware update failed (Axis %1) The update of a firmware component failed. Restart the update and if the error persists, copy the message and send it to Triamec and include details (The old and new release and the product) Class:Alarm; Firmware:FW4.20.0-
6242	Message Description Solution Details	Persistent flash write file rejected due to flash wear protection. Retry later. (Axis %1) The flash wear protection prevents writing to persistent memory. Let the time stated in the error pass before writing to persistent memory again. In the mean time consider to disable the table persistency (AN 124). Class:Alarm; Firmware:FW4.12.14-
6273	Message Description Solution Details	Motor temperature limit (Axis %1) The motor temperature is above limit. Check the sensor cables. Check the motor temperature. Class:Alarm; Firmware:FW4.12.14-
6274	Message Description Solution Details	Motor BrakeHoldTime out of limit (Axis %1) The parameter Axes[].Parameters.Motor.BrakeHoldTime is too large. Reduce this parameter. Class:Alarm; Firmware:FW4.12.14-
6275	Message Description Solution Details	Motor phase short (Axis %1) Detected a motor short current. Remove the motor connector and check if the error disappears. If not, contact Triamec Motion AG. Class:Alarm; Firmware:FW4.12.14-

6276	Message Description Solution Details	Enabling but motor type not defined (Axis %1) The parameter Axes[].Parameters.Motor.Type is not set. Set the parameter to the correct motor type. Class:Alarm; Firmware:FW4.12.14-
6277	Message Description Solution Details	Motor type changed when enabled (Axis %1) The parameter Axes[].Parameters.Motor.Type has changed in enabled state. Do not change the motor type when enabled. Class:Alarm; Firmware:FW4.12.14-FW4.16
6278	Message Description Solution Details	Power bridge I2t limit (Axis %1) The continuous current limit of the drive is reached. Reduce the currents or the accelerations or the duty cycle. Class:Alarm; Firmware:FW4.12.14-
6280	Message Description Solution Details	Power bridge peak current limit (Axis %1) The peak current limit of the drive is reached. Reduce the currents or the accelerations. Class:Alarm; Firmware:FW4.12.14-
6281	Message Description Solution Details	Motor I2t (Axis %1) The continuous current limit Axes[].Parameters.Motor.NominalCurrent is reached. Ensure the parameter Axes[].Parameters.Motor.CurrentSquareTime is correct. If so, reduce the currents or the accelerations or the duty cycle. Class:Alarm; Firmware:FW4.12.14-
6282	Message Description Solution Details	Motor peak current limit (Axis %1) The peak current limit Axes[].Parameters.Motor.PeakCurrent is reached. Reduce the currents or the accelerations. Class:Alarm; Firmware:FW4.12.14-
6283	Message Description Solution Details	Axis must be disabled (Axis %1) The axis must be disabled for this action. Disable the axis for this action. Class:Alarm; Firmware:FW4.12.14-
6285	Message Description Solution Details	Axis enable not possible (Axis %1) Enabling the axis was ignored because an error is pending or the motor type is None or unsupported. Reset the error before enabling the axis. Check the motor configuration. Class:Alarm; Firmware:FW4.12.14-
6286	Message Description Solution Details	EncoderConfigurationError Enc0Enc1 (Axis %1) There is a conflicting encoder configuration in EncoderTopology Standard. Either Ax0Enc0 and Ax1Enc1 are both set or Ax0Enc1 and Ax1Enc0 are both set. Change the parametrization. Class:Alarm; Firmware:FW4.12.14-

6287	Message Description Solution Details	Override state leaving but EtherCAT commands enable (Axis %1) An EtherCAT enable command is pending at the very transition from override (attach-mode) to standard mode. Make sure TwinCAT does not try to enable an axis when the Explorer axis is detached. Class:Alarm; Firmware:FW4.13.13-
6288	Message Description Solution Details	Commit error (Axis %1) This is an internal error. Contact Triamec Motion AG. Class:Alarm; Firmware:FW4.16.0-
6289	Message Description Solution Details	EtherCAT encoder position out of integer-range (Axis %1) The encoder position is outside of the EtherCAT integer-range Make sure the encoder position is in a valid range Class:Alarm; Firmware:FW4.23.0-
6290	Message Description Solution Details	PathPlanner modulo min>max (Axis %1) The PathPlanner modulo minimum is larger than the maximum. Change Axes[].Parameters.PathPlanner.ModuloPositionMinimum or ModuloPositionMaximum. Class:Alarm; Firmware:FW4.12.14-
6291	Message Description Solution Details	PathPlanner unknown Mode (Axis %1) Illegal Axes[].Parameters.PathPlanner.Mode setting. Check if this firmware release supports the selected mode. Class:Alarm; Firmware:FW4.12.14-
6292	Message Description Solution Details	PathPlanner unknown StreamLossAction (Axis %1) Illegal Axes[].Parameters.PathPlanner.StreamLossAction setting. Check if this firmware release supports the selected StreamLossAction. Class:Alarm; Firmware:FW4.12.14-
6293	Message Description Solution Details	PathPlanner unknown StreamInterpolationMode (Axis %1) Illegal Axes[].Parameters.PathPlanner.StreamInterpolationMode setting. Check, if this firmware release supports the selected StreamInterpolation-Mode. Class:Alarm; Firmware:FW4.12.14-
6294	Message Description Solution Details	PathPlanner InterpolatorDelay not within +-50us (Axis %1) Axes[].Parameters.PathPlanner.InterpolatorDelay is out of range. Modify this parameter. Class:Alarm; Firmware:FW4.12.14-
6295	Message Description Solution Details	PathPlanner couple act= (Axis %1) Coupling to the external position stream failed because the positions deviate from the actual position by more than the PositionErrorLimit. Ensure that external positions are equal to the actual position during coupling. Class:Alarm; Firmware:FW4.12.14-

6296	Message Description Solution Details	PathPlanner synchronization lost (Axis %1) The stream of external positions ceased while the PathPlanner was coupled to the stream. Re-enter the coupled motion mode. The ErrorReaction depends on the setting in Parameters.PathPlanner.StreamLossAction. Class:Alarm; ErrorReaction:[ErrorStop, ErrorStopDisable]; Firmware:FW4.12.14-
6297	Message Description Solution Details	PathPlanner Parameter SoftwareLimits min>max (Axis %1) The PathPlanner Axes[].Parameters.PathPlanner.PositionMin is larger than PositionMax. Correct the parameters. Class:Alarm; Firmware:FW4.16.0-
6298	Message Description Solution Details	Target Position out of Range (Axis %1) The PathPlanner targets a position outside the software limits Axes[].Parameters.PathPlanner.PositionMinimum or PositionMaximum. Check the limit parameters. Keep inside the legal motion range. If actual position is out of range, move back to a valid position. Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.16.0-
6299	Message Description Solution Details	LimitSwitch reached (Axis %1) The axis ran into a limit switch Axes[].Parameters.Motor.LimitSwitch. Move back to the valid range or consider changing the LimitSwitch parameters. Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.16.0-
6300	Message Description Solution Details	PositionController PositionUnit unspecified (Axis %1) Axes[].Parameters.PositionController.PositionUnit is unspecified. Set a unit. Class:Alarm; Firmware:FW4.12.14-
6301	Message Description Solution Details	Illegal PositionController MasterPositionSource (Axis %1) Illegal Axes[].Parameters.PositionController.MasterPositionSource setting. Make sure this firmware release supports the selected source. Class:Alarm; Firmware:FW4.12.14-
6302	Message Description Solution Details	PositionController PositionErrorLimit0 I= (Axis %1) The position error of Controller0 exceeded the limit setting at Axes.Parameters.PositionController.PositionErrorLimit Ensure that the entire travel path of the axis is clear. Consider relaxing the limit or optimizing the controller. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6303	Message Description Solution Details	PositionController PositionErrorLimit1 I= (Axis %1) The positionError of controller1 exceeded the limit Axes.Parameters.PositionController.PositionErrorLimit Check, if an obstacle caused the deviation or if the limit should be relaxed or if the controller should be optimized. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-

6320	Message Description Solution	Sensorless only for AC motors (Axis %1) Sensorless mode is only available for synchronous AC motors. Turn off Sensorless mode in Axes[].Parameters.PositionController.Encoders[].Type and set Axes[].Parameters.CurrentController.SensorlessTransitionStartVelocity to zero, if Axes[].Parameters.Motor.Type is not Synchronous. Details Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6321	Message Description Solution	Motor phase current: Significant deviation between PowerBridges (Axis %1) Significant current deviation between power bridges. Navigate to Axes[].Signals.CurrentController.actualCurrentDetail. Use the scope to compare aU with bU etc when the error happens and Contact Triamec Motion AG if the error is frequently observed. Details Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6330	Message Description Solution Details	Commutation unknown EnablingMethod (Axis %1) Axes[].Commutation.EnablingMethod is unknown. Make sure the firmware release supports this method. Details Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6331	Message Description Solution Details	Enable cmd no valid commutation (Axis %1) A synchronous motor requires a valid commutation Axes[].Parameters.Commutation.PhasingMethod. Set the parameters Axes[].Parameters.Commutation. Details Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6332	Message Description Solution Details	Commutation Unknown Command (Axis %1) Unknown Axes[].Commands.Commutation.Command Make sure the firmware release supports this command. Details Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.12.14-
6333	Message Description Solution Details	Commutation restart bad state (Axis %1) Axes[].Commands.Commutation.Command tried to re-start phasing, but the axis is not in a proper state. The axis must be ready for operation but not Enabled for StartPhasingAndZeroEncoder and it must not be in motion for other commands. Details Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.12.14-
6334	Message Description Solution Details	Commutation cmd (Axis %1) Incompatible motor configuration for command issued in Axes[].Commands.-Commutation.Command. Use this command with an AC motor configuration only. Check Axes[].Parameters.Motor.Type Details Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.12.14-

6335	Message Description Solution Details	Commutation cmd (Axis %1) Incompatible encoder configuration for command issued in Axes[].Commands.Commutation.Command. Use this command with an absolute encoder only. Check Axes[].Parameters.PositionController.Encoders[].Type Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.12.14-
6336	Message Description Solution Details	Commutation integrator limit (Axis %1) The phasing controller did not settle. Ensure that the axis is freely movable during phasing. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6337	Message Description Solution Details	Commutation 600HzLimit vel= (Axis %1) Maximum commutation velocity of 600Hz reached. Reduce the velocity or replace the product by a high-speed variant. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6338	Message Description Solution Details	Commutation invalidated (Axis %1) An external command invalidated the commutation while enabled. Find and fix the cause of the invalidation command. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6339	Message Description Solution Details	AbsoluteEncoder Cmd (Axis %1) The absolute encoder returned an error while processing the command issued in Axes[].Commands.Commutation.Command. Check the Log for encoder errors for more information. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6340	Message Description Solution Details	Commutation encoder is disabled (Axis %1) An encoder which is used for the commutation is disabled. Set the correct encoder type for all encoders referenced by Parameters.Commutation.Source. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.18.2-
6341	Message Description Solution Details	Sine excitation longer than commutation duration (Axis %1) In Axes[].Parameters.Commutation, 3/SineFrequency must be smaller than RampRiseTime + 0.8*RampConstTime. Increase the SineFrequency or the RampConstTime. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.19.0-
6342	Message Description Solution Details	Commutation unknown PhasingMethod (Axis %1) Axes[].Commutation.PhasingMethod is unknown. Make sure the firmware release supports this method. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.24.0-
6350	Message Description Solution Details	Homing Start commanded, but not ready for movement Err= (Axis %1) The axis was not ready to move when issuing a homing start command. The axis must be enabled before homing. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-

6351	Message Description Solution Details	Homing FirstSearch early trigger at (Axis %1) Trigger detected within the first 5ms of the homing FirstSearchMove. Check for EMC noise on the source defined in Axes[].Parameters.Homing.-FirstSearchMove.EventInput. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6352	Message Description Solution Details	Homing FirstSearch motion error (Axis %1) Detected a motion error during homing FirstSearchMove. Check for obstacles in the axis pathway. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6353	Message Description Solution Details	Homing Relocation move motion error (Axis %1) Detected a motion error during homing RelocateMove. Check for obstacles in the axis pathway. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6354	Message Description Solution Details	Homing SecondSearch early trigger at (Axis %1) Trigger detected within the first 5ms of the homing SecondSearchMove. Check for EMC noise on the source defined in Axes[].Parameters.Homing.SecondSearchMove.EventInput. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6355	Message Description Solution Details	Homing SecondSearch trigger not found at (Axis %1) The homing SecondSearchMove reached the SignedMaxDistance without finding the trigger. Check the source defined in Axes[].Parameters.Homing.SecondSearchMove.EventInput. Consider increasing the SignedMaxDistance value. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6356	Message Description Solution Details	Homing SecondSearch motion error (Axis %1) Detected a motion error during the homing SecondSearchMove. Check for an obstacle in the axis pathway. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6357	Message Description Solution Details	Homing MoveHome motion error (Axis %1) Detected a motion error during the MoveToHomePosition move. Check for an obstacle in the axis pathway. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6358	Message Description Solution Details	Homing FirstSearch trigger not found at (Axis %1) The homing FirstSearchMove reached the SignedMaxDistance without finding the trigger. Check the source defined in Axes[].Parameters.Homing.FirstSearchMove.EventInput. Consider increasing the SignedMaxDistance value. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-

6359	Message	Homing FirstSearch unknown par (Axis %1)
	Description	The parameter Axes[].Parameters.Homing.FirstSearchMove.EventInput is either unknown, or already defined in a search move of an other axis on the same drive.
	Solution	Ensure the combinations of EventInput and EventAxis in multiple axes are unique across one drive.
6360	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
	Message	Homing SecondSearch unknown par (Axis %1)
	Description	The parameter Axes[].Parameters.Homing.SecondSearchMove.EventInput is either unknown, or already defined in a search move of an other axis on the same drive. Skip is not allowed for this parameter!
6361	Solution	Ensure the combinations of EventInput and EventAxis in multiple axes are unique across one drive.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
	Message	Homing timeout (Axis %1)
6362	Description	The axis was in motion when issuing SetPosition in Axes[].Commands.Homing.Command.
	Solution	Issuing SetPosition is allowed exclusively when the axis is in Standstill, Disabled or in DirectCoupled but not moving.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6363	Message	Homing start for absolute encoder, which is not ready (Axis %1)
	Description	An absolute encoder command Axes[].Commands.Homing.Command was received, but the encoder is not ready.
	Solution	Make sure the absolute encoder Axes[].Parameters.PositionController.Encoders[] is setup and working properly.
6364	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
	Message	Homing cmd (Axis %1)
	Description	The current method in Axes[].Parameters.Homing.Method does not allow saving a position to the absolute encoder.
6365	Solution	Set Axes[].Parameters.Homing.Method to a setting with suffix OffsetEncoder before using the command SaveEncoder in Axes[].Commands.Homing.Command.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.12.14-
	Message	Homing cmd (Axis %1)
6366	Description	The commands SaveEncoder or InvalidateEncoder in Axes[].Commands.Homing.Command are illegal while the axis is enabled.
	Solution	Disable the axis before issuing these commands.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.12.14-
6367	Message	Homing cmd incompatible with method (Axis %1)
	Description	Illegal command Start in Axes[].Commands.Homing.Command for the setting in Axes[].Parameters.Homing.Method.
	Solution	Check the setting in Axes[].Parameters.Homing.Mode.
6368	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-

6366	Message Description Solution Details	Homing unknown Method (Axis %1) Unknown setting in Axes[].Parameters.Homing.Mode. Ensure that the installed firmware supports this homing mode. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6371	Message Description Solution Details	Gantry error (Axis %1) The other axis of the gantry threw an error. Refer to the error of the other axis. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6372	Message Description Solution Details	Gantry mixed encoder types (Axis %1) Gantry requires same encoder0 types on both axis. Use same encoder types0 on both axes. Please note, that before 4.24.0 the requirement was even stronger. Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6373	Message Description Solution Details	Gantry not allowed for modulo axes (Axis %1) Gantry is not allowed for modulo axes. Set the modulo parameters at Axes[].Parameters.PathPlanner to 0. Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6374	Message Description Solution Details	Gantry enable rejected because axis is not active (Axis %1) Gantry enable is not allowed if an axis is not active. Set Axes[].Comamnds.PositionController.Active to True. Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.16.0-
6376	Message Description Solution Details	Option Parameter Range (Axis %1) Unknown value in Axes[].Parameters.OptionModule.AN_Range or AO_Range. Check if this firmware supports the specified range. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6377	Message Description Solution Details	Option Function (Axis %1) The Option Module does not function properly. Contact Triamec Motion AG, if the error persists. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6378	Message Description Solution Details	OptionModule encoder missing (Axis %1) An Option Module is configured but not available. Check Axes[].Parameter.PositionController.Encoders[].Type and General.Parameters.EncoderTopology Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.12.14-
6379	Message Description Solution Details	SPI (Axis %1) The Option Module SPI connection error. Call Triamec Motion AG if the error persists Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-

6390	Message	PathPlanner command %s rejected because parameter jerk or drf zero (Axis %1)
	Description	The PathPlanner Jerk or DynamicReductionFactor is zero. This is mandatory for correct behavior of emergency stop.
	Solution	Check Axes[].Parameter.PathPlanner.Jerk and Axes[].Parameter.PathPlanner.-DynamicReductionfactor.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.16.0-
6391	Message	PathPlanner command %s rejected because parameter deceleration zero (Axis %1)
	Description	The PathPlanner deceleration parameter or command is zero. This is mandatory for correct behavior of emergency stop.
	Solution	Check Axes[].Parameter.PathPlanner.Deceleration
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.16.0-
6392	Message	PathPlanner command rejected in axis state (Axis %1)
	Description	This PathPlanner command is not allowed in the current axis state.
	Solution	Make sure the axis is in a valid state for this command.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.16.0-4.22
6393	Message	PathPlanner emergency stop (Axis %1)
	Description	The PathPlanner received an emergency stop command.
	Solution	Reset the error.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.20.0-
6400	Message	Axis Compensation bad table header parameter file (Axis %1)
	Description	The axis compensation function points to a table with inconsistent parameters.
	Solution	Make sure the referenced table (Parameters.Compensations.Axis.Table) is valid and check its header parameters for size and type.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.18.2-
6401	Message	Axis Compensation unknown uri (Axis %1)
	Description	The axis compensation function uses an illegal uri in Parameters.Commpensations.Axis.DimNSource.
	Solution	Make sure this uri exists.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.18.2-
6410	Message	Cogging Table unknown parameter file (Axis %1)
	Description	The Parameters.Compensation.Cogging function uses an illegal parameter.
	Solution	If the source is MotorTurn, make sure, StatorDecoupling mode is not used.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.18.2-
6411	Message	Cogging Table bad header in file (Axis %1)
	Description	The cogging table specified by Parameters.Compensations.Cogging.Table is not available or its header is not valid.
	Solution	Make sure, Dim1.Distance!=0 and Dim1.Size!=0 and Dim2.Size=1 and Dim3.Size=1.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.18.2-

6420	Message Description Solution Details	PositionError analysis inconsistent parameter (Axis %1) The Time parameter is smaller than 0.1ms for modes StandardDeviation, ISE and ITSE or the Mode is not known. Set a valid time parameter and check the Mode setting. Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.18.2-
6421	Message Description Solution Details	PathPlanner stream out-of-data (Axis %1) The pc did not send position or extension data in time Make sure, the pc is not overloaded Class:Alarm; ErrorReaction:Depends on Commands.PathPlanner.Stream.Error.Reaction; Firmware:FW4.24.0-
6422	Message Description Solution Details	PathPlanner stream feed timeout (Axis %1) The pc did not send feed data in time Make sure, the pc is not overloaded Class:Alarm; ErrorReaction:Depends on Commands.PathPlanner.Stream.Error.Reaction; Firmware:FW4.24.0-
6791	Message Description Solution Details	Encoder option module not found (Axis %1) An Option Module encoder is used but there is no option module in this axis. Change the encoder configuration. Class:Alarm; Firmware:FW4.16.0-4.18
6792	Message Description Solution Details	Encoder (Axis %1) The encoder type is unknown. Choose a valid encoder type. Class:Alarm; Firmware:FW4.12.14-
6793	Message Description Solution Details	Encoder (Axis %1) The encoder type is unknown (Option Module encoder). Choose a valid encoder type. Class:Alarm; Firmware:FW4.16.0-4.18
6794	Message Description Solution Details	Sensorless encoder is not commutation encoder (Axis %1) Illegal configuration of Encoder[1].Type = Sensorless. Only Encoder[0] is allowed for Sensorless motion. Change the encoder configuration. Class:Alarm; Firmware:FW4.12.14-
6796	Message Description Solution Details	AbsoluteEncoder no encoder persistency (Axis %1) The encoder nameplate contains no encoder persistency data. Consider the application note AN107. Class:Alarm; Firmware:FW4.12.14-
6797	Message Description Solution Details	AbsoluteEncoder Opt no encoder persistency (Axis %1) The encoder nameplate contains no encoder persistency data (Option Module encoder). Consider the application note AN107. Class:Alarm; Firmware:FW4.16.0-4.18

6800	Message Description Solution Details	Save encoder timeout cmd= (Axis %1) Timeout while saving persistency data to the encoder. Check encoder cabling. Class:Alarm; Firmware:FW4.12.14-
6801	Message Description Solution Details	Save Opt encoder timeout cmd= (Axis %1) Timeout while saving persistency data to the option module encoder. Check encoder cabling. Class:Alarm; Firmware:FW4.16.0-4.18
6816	Message Description Solution Details	AbsoluteEncoder SubResolutionError (Axis %1) Lost alignment of the absolute encoder position with its analog subresolution. Check if the analog encoder signals A/B wiring is correct. See also AN107. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6817	Message Description Solution Details	AbsoluteEncoder Opt SubResolutionError (Axis %1) Lost alignment of the absolute encoder position with its analog subresolution (Option Module encoder). Check if analog phase A/B wiring is correct. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6818	Message Description Solution Details	Encoder short or overload (Axis %1) The encoder supply is shorted or overloaded. Check for correct wiring. Check cable conditions on previously running machines. Check current consumption of the encoder. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6819	Message Description Solution Details	EncoderShort Opt (Axis %1) The Option Module encoder supply is shorted. Check for correct wiring. Check cable conditions on previously running machines. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-4.18
6820	Message Description Solution Details	AbsoluteEncoder Dataformat (Axis %1) Illegal string in Axes[].Parameters.PositionController.Encoders[].DataFormat. Check the string at the character position indicated in the error message. Check for allowed DataFormat tags in AN107. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6821	Message Description Solution Details	AbsoluteEncoder Opt Dataformat at (Axis %1) Illegal string in Axes[].Parameters.PositionController.Encoders[].DataFormat for an Option Module encoder. Check the string at the character position indicated in the error message. Check for allowed DataFormat tags in AN107. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18

6822	Message Description Solution Details	AbsoluteEncoder incPerUnit is zero (Axis %1) The Endat hardware incPerUnit is zero. Check if this encoder is compatible. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6823	Message Description Solution Details	AbsoluteEncoder Opt incPerUnit is zero (Axis %1) The Endat hardware incPerUnit is zero. Check if this encoder is compatible. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6824	Message Description Solution Details	AbsoluteEncoder signalPeriod is zero (Axis %1) The Endat hardware signalPeriod is zero which is not compatible with encoder type AnalogEndat. Check if this encoder is compatible. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6825	Message Description Solution Details	AbsoluteEncoder Opt signalPeriod is zero (Axis %1) The Endat hardware signalPeriod is zero which is not compatible with encoder type AnalogEndat. Check if this encoder is compatible. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6826	Message Description Solution Details	AbsoluteEncoder unknown command (Axis %1) The encoder does not support the requested command. Check which commands are possible for this encoder in AN107. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6827	Message Description Solution Details	AbsoluteEncoder Opt unknown command (Axis %1) The encoder does not support the requested command. Check which commands are possible for this encoder in AN107. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6828	Message Description Solution Details	AbsoluteEncoder unknown type (Axis %1) Unknown value in Axes[].Parameters.PositionController.Encoders[].Type. Check if the firmware supports this encoder type. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6829	Message Description Solution Details	AbsoluteEncoder Opt unknown type (Axis %1) Unknown value in Axes[].Parameters.PositionController.Encoders[].Type for an Option Module encoder. Check if the firmware supports this encoder type. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6830	Message Description Solution Details	AbsoluteEncoder internal error (Axis %1) Encoder setup failed due to an internal error. Contact Triamec Motion AG if the error persists. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-

6831	Message Description Solution Details	AbsoluteEncoder Opt internal error (Axis %1) Option Module encoder setup failed due to an internal error. Contact Triamec Motion AG if the error persists. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6832	Message Description Solution Details	AbsoluteEncoder databus error (Axis %1) Communication with the encoder hardware failed. Check encoder databus wiring. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6833	Message Description Solution Details	AbsoluteEncoder Opt databus error (Axis %1) Communication with the Option Module encoder hardware failed. Check encoder databus wiring. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6834	Message Description Solution Details	AbsoluteEncoder cable length calibration (Axis %1) The Endat cable length calibration failed. Reduce the cable length or consider turning off the calibration with the setting Encoders[].DataFormat = M2. Class:Alarm; Firmware:FW4.12.14-
6835	Message Description Solution Details	AbsoluteEncoder Opt cable length calibration (Axis %1) The Endat cable length calibration failed (Option Module encoder). Reduce the cable length or consider turning off the calibration with the setting Encoders[].DataFormat = M2. Class:Alarm; Firmware:FW4.12.14-4.18
6836	Message Description Solution Details	AbsoluteEncoder nameplate access (Axis %1) Failed to access the digital nameplate of the absolute encoder holding homing and commutation information. Check if the encoder supports saving customer data. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6837	Message Description Solution Details	AbsoluteEncoder Opt nameplate access (Axis %1) Failed to access the digital nameplate of the absolute encoder holding homing and commutation information (Option Module encoder). Check if the encoder supports saving customer data. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6838	Message Description Solution Details	AbsoluteEncoder set zero (Axis %1) Encoder set zero failed. Check if the encoder supports zeroing. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6839	Message Description Solution Details	AbsoluteEncoder Opt set zero (Axis %1) Option module encoder set zero failed. Check if the encoder supports zeroing. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18

6848	Message	Encoder amplitude error <25% (Axis %1)
	Description	Encoder amplitude is smaller than 25% detected. Check counter in Axes[].Signals.PositionController.Encoders[].Diagnostics.Counters.AmplitudeError.
	Solution	Adjust the alignment of the encoder head to the scale according to the instructions of the manufacturer. Clean the scale.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6849	Message	AnalogEncoder opt amplitude error <25% (Axis %1)
	Description	Analog encoder amplitude smaller than 25% detected (Option Module encoder).
	Solution	Adjust the alignment of the encoder head to the scale according to the instructions of the manufacturer. Clean the scale.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-4.18
6850	Message	Encoder amplitude warn <50% (Axis %1)
	Description	Encoder amplitude smaller than 50% detected with the error mask 0x3 enabled in Axes[].Parameters.PositionController.Encoders[].DataFormat. Check counter in Axes[].Signals.PositionController.Encoders[].Diagnostics.Counters.AmplitudeWarning.
	Solution	Adjust the alignment of the encoder head to the scale according to the instructions of the manufacturer. Clean the scale. More information on the DataFormat register can be found in AN107.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-
6851	Message	AnalogEncoder Opt amplitude warn <50% (Axis %1)
	Description	Analog encoder amplitude smaller than 50% detected with the error mask 0x3 enabled in Axes[].Parameters.PositionController.Encoders[].DataFormat (Option Module encoder).
	Solution	Adjust the alignment of the encoder head to the scale according to the instructions of the manufacturer. Clean the scale. More information on the DataFormat register can be found in AN107.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-4.18
6852	Message	AbsoluteEncoder flag1 (Axis %1)
	Description	Absolute encoder flag1 is enabled and triggered an error. Check counter in Axes[].Signals.PositionController.Encoders[].Diagnostics.Counters.DigitalFlag1.
	Solution	Determine and solve the cause of the encoder error. Consider disabling flag1 using Axes[].Parameters.PositionController.Encoders[].DataFormat. More information on the DataFormat register can be found in AN107.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-
6853	Message	AbsoluteEncoder Opt flag1 (Axis %1)
	Description	Absolute encoder flag1 is enabled and triggered an error (Option Module encoder).
	Solution	Determine and solve the cause of the encoder error. Consider disabling flag1 using Axes[].Parameters.PositionController.Encoders[].DataFormat. More information on the DataFormat register can be found in AN107.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-4.18

6854	Message	AbsoluteEncoder flag2 (Axis %1)
	Description Solution	Absolute encoder flag2 is enabled and triggered an error. Determine and solve the cause of the encoder error. Consider disabling flag2 using <code>Axes[].Parameters.PositionController.Encoders[].DataFormat</code> . More information on the DataFormat register can be found in AN107. Check counter in <code>Axes[].Signals.PositionController.Encoders[].Diagnostics.Counters.DigitalFlag2</code> .
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-
6855	Message	AbsoluteEncoder Opt flag2 (Axis %1)
	Description	Absolute encoder flag2 is enabled and triggered an error (Option Module encoder).
	Solution	Determine and solve the cause of the encoder error. Consider disabling flag2 using <code>Axes[].Parameters.PositionController.Encoders[].DataFormat</code> . More information on the DataFormat register can be found in AN107.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-4.18
6856	Message	AbsoluteEncoder crc (Axis %1)
	Description	Absolute encoder CRC communication error. Check counter in <code>Axes[].Signals.PositionController.Encoders[].Diagnostics.Counters.DigitalCrc</code> .
	Solution	Check cable conditions and shielding.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-
6857	Message	AbsoluteEncoder Opt crc (Axis %1)
	Description	Absolute encoder CRC communication error (Option Module encoder).
	Solution	Check cable conditions and shielding.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-4.18
6858	Message	AbsoluteEncoder communication (Axis %1)
	Description	Absolute encoder communication error. Check counter in <code>Axes[].Signals.PositionController.Encoders[].Diagnostics.Counters.DigitalCommunication</code> .
	Solution	Check cable conditions and shielding.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-
6859	Message	AbsoluteEncoder Opt communication (Axis %1)
	Description	Absolute encoder communication error (Option Module encoder).
	Solution	Check cable conditions and shielding.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-4.18
6860	Message	AnalogEncoder RangePhaseA (Axis %1)
	Description	Encoder phaseA voltage out of range. Check counter in <code>Axes[].Signals.PositionController.Encoders[].Diagnostics.Counters.OverrangePhaseA</code> .
	Solution	Check cable and connector conditions.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-
6861	Message	AnalogEncoder Opt RangePhaseA (Axis %1)
	Description	Encoder phaseA voltage out of range (Option Module encoder).
	Solution	Check cable and connector conditions.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-4.18

6862	Message Description Solution Details	AnalogEncoder RangePhaseB(Axis %1) Encoder phaseB voltage out of range. Check counter in Axes[].Signals.PositionController.Encoders[].Diagnostics.Counters.OverrangePhaseB. Check cable and connector conditions. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-
6863	Message Description Solution Details	AnalogEncoder Opt RangePhaseB (Axis %1) Option encoder phaseB voltage out of range (Option Module encoder). Check cable and connector conditions. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-4.18
6913	Message Description Solution Details	Fieldbus not ready (Axis %1) The fieldbus is not ready. Check the fieldbus condition and cabling. If working with EtherCAT, check the settings for Distributed Clock of the master adapter. Class:Alarm; Firmware:FW4.12.14-
6914	Message Description Solution Details	ComputingTime Order (Axis %1) Internal error of the real-time scheduler. Contact Triamec Motion AG with the information, under which conditions the error appeared. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6916	Message Description Solution Details	ComputingTime Tamalso entry (Axis %1) The computing time of the isochronous Tama task was too long. Change the Tama code Task.IsochronousMain to reduce the computing time. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6917	Message Description Solution Details	ComputingTime Iso (Axis %1) The computing time of the 10kHz task was too long. Change the Tama code Task.IsochronousMain to reduce the computing time. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6918	Message Description Solution Details	ComputingTime TamaAsy entry (Axis %1) The computing time of the Tama program asynchronous task was too long. Change the Tama code Task.AsynchronousMain to reduce the computing time. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6920	Message Description Solution Details	DC-Bus Hardware-Limit (Axis %1) The DC-Bus voltage reached the absolute maximum limit. Check the power supply and the condition of the brake resistor. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6921	Message Description Solution Details	DC-Bus Upper-limit (Axis %1) The DC-Bus voltage exceeded the setting in General.Parameters.DcBusVoltageUpperLimit. Check the setting considering the power supply specifications and the brake resistor capability. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-

6922	Message	DC-Bus Lower-Limit (Axis %1)
	Description	The DC-Bus voltage dropped below General.Parameters.DcBusVoltageLower-Limit.
	Solution	Check the setting considering the power supply specifications. Check the main supply for power failure events.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6923	Message	DC-Bus OverCurrent Limit (Axis %1)
	Description	The DC-Bus current exceeded limits.
	Solution	Check for shorts in the motor cable.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6930	Message	TemperatureLimit Tc R81= (Axis %1)
	Description	Internal temperature limit reached.
	Solution	Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6931	Message	TemperatureLimit Bridge R81= (Axis %1)
	Description	Internal temperature limit reached.
	Solution	Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6932	Message	TemperatureLimit SafeA R81= (Axis %1)
	Description	Internal temperature limit reached.
	Solution	Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6933	Message	TemperatureLimit SafeB R81= (Axis %1)
	Description	Internal temperature limit reached.
	Solution	Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6934	Message	TemperatureLimit Motor R81= (Axis %1)
	Description	Internal temperature limit reached.
	Solution	Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6935	Message	TemperatureLimit OptionA R81= (Axis %1)
	Description	Internal temperature limit reached.
	Solution	Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-

6936	Message Description Solution Details	TemperatureLimit OptionB R81= (Axis %1) Internal temperature limit reached. Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature. Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6937	Message Description Solution Details	TemperatureLimit TempA53 (Axis %1) Internal temperature limit of the CPU reached. Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature. Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6938	Message Description Solution Details	TemperatureLimit BridgeB R81= (Axis %1) Internal temperature limit reached. Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature. Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6940	Message Description Solution Details	Internal Voltage OutOfRange Tc R81= (Axis %1) Internal voltage failure. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6941	Message Description Solution Details	Internal Voltage OutOfRange Bridge R81= (Axis %1) Internal voltage failure. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6942	Message Description Solution Details	Internal Voltage OutOfRange SafeA R81= (Axis %1) Internal voltage failure. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6943	Message Description Solution Details	Internal Voltage OutOfRange SafeB R81= (Axis %1) Internal voltage failure. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6944	Message Description Solution Details	Internal Voltage OutOfRange MotorTemp R81= (Axis %1) Internal voltage failure. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6945	Message Description Solution Details	Internal Voltage OutOfRange OptionA R81= (Axis %1) Internal voltage failure. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-

6946	Message Description Solution Details	Internal Voltage OutOfRange OptionB R81= (Axis %1) Internal voltage failure. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6947	Message Description Solution Details	Internal Voltage OutOfRange PowerBridgeSupply (PBS) R88= (Axis %1) Internal voltage failure. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6948	Message Description Solution Details	Internal Voltage OutOfRange UVLO DcDc Drv Fpga= (Axis %1) Internal voltage failure. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6949	Message Description Solution Details	Internal Voltage OutOfRange BridgeB R81= (Axis %1) Internal voltage failure. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6950	Message Description Solution Details	ExternalError (Axis %1) General.Commands.ExternalError is set to True to simulate an error. Set the register value back to False. Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6951	Message Description Solution Details	InvalidPersistentParameters (Axis %1) Invalid checksum in persistent data. Reload the configuration file (*.TAMcfg) and retry to save the parameters persistently. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6952	Message Description Solution Details	Persistency erase failed (Axis %1) Failed erasing persistent data due to an internal error. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6953	Message Description Solution Details	Persistency write failed (Axis %1) Failed to save data persistently due to an internal error. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6960	Message Description Solution Details	Gantry version (Axis %1) The firmware does not support the setting in General.Parameters.Controller-Topology. Check if the firmware supports the mode and if any chosen Gantry mode requires a license. Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-

6961	Message	Gantry axis units not equal (Axis %1)
	Description	Unequal Axes[].Parameters.PositionController.PositionUnit setting for Axes[0] and Axes[1].
	Solution	In Gantry setups both Axes must use the same units. Make sure the parameters are equal.
6962	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
	Message	Gantry motor types not equal (Axis %1)
	Description	Unequal Axes[].Parameters.Motor.Type setting for Axes[0] and Axes[1].
6963	Solution	In Gantry setups both Axes must use the same motor. Make sure the parameters are equal.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
	Message	Gantry commutation phasingMethod not equal (Axis %1)
6970	Description	Unequal Axes[].Parameters.Commutation.PhasingMethod setting for Axes[0] and Axes[1].
	Solution	In Gantry setups both Axes must use the same phasing method. Make sure the parameters are equal.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6971	Message	Tama code not valid VMID (Axis %1)
	Description	The Tama assembly does not match to the Virtual Machine ID (Vmid) of the device.
	Solution	Ensure using the correct Vmid and recompile the Tama program code. Find the Vmid of the target drive in the Device node information.
6972	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
	Message	Tama code incompatible to this drive (Axis %1)
	Description	The Tama assembly does not match to the Register Layout ID (Rlid) of the device.
6973	Solution	Ensure using the correct Rlid and recompile the Tama program code. Find the Rlid of the target drive in the Device node information.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
	Message	Tama code wrong checksum (Axis %1)
6974	Description	The Tama assembly is not valid.
	Solution	Recompile the Tama program code.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6975	Message	Tama code unknown register (Axis %1)
	Description	Illegal register access by the Tama program - triggered by accessing an unknown address or writing to a read-only register.
	Solution	Ensure that all registers (URIs) used in the Tama program are compatible with the firmware version used. Find the point of failure with the row number (row%x) and the register address (reg0x%x) in the assembly file (.asm). Consult the SWTAMA_CompilerUserGuide document for more information.
6976	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-

6975	Message Description Solution Details	Tama code out of memory (Axis %1) The Tama code heap run out of memory. Reduce the amount of heap allocations with new. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6976	Message Description Solution Details	Tama division by zero (Axis %1) The Tama code aborted due to a division by zero. Prevent division by zero in the program code. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6977	Message Description Solution Details	Tama null reference (Axis %1) Tama null reference exception. Ensure that objects are correctly instantiated in the program code. Consider null checks when referencing objects. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6978	Message Description Solution Details	Tama index out of range (Axis %1) Tama array index out of bounds. Limit the array index to the array size. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6979	Message Description Solution Details	Tama corrupted state (Axis %1) Tama execution reached a corrupted state. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6980	Message Description Solution Details	Tama code requires resources at instruction Tama code requires more resources than available in FW. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.24.0-
6981	Message Description Solution Details	Tama code invalid The verification of the Tama program was not successful. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.24.0-
6990	Message Description Solution Details	Monitor is not running Tc (Axis %1) Internal communication error. Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6991	Message Description Solution Details	Monitor is not running Bridge (Axis %1) Internal communication error. Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-

6992	Message Description Solution Details	Monitor is not running SafeA (Axis %1) Internal communication error. Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6993	Message Description Solution Details	Monitor is not running SafeB (Axis %1) Internal communication error. Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6994	Message Description Solution Details	Monitor is not running Motor (Axis %1) Internal communication error. Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6995	Message Description Solution Details	Monitor is not running OptionA (Axis %1) Internal communication error. Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6996	Message Description Solution Details	Monitor is not running OptionB (Axis %1) Internal communication error. Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6997	Message Description Solution Details	Monitor is not running Communication State= (Axis %1) Internal communication error. Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6998	Message Description Solution Details	Monitor state (Axis %1) Internal communication error. Contact Triamec Motion AG if the error persists. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6999	Message Description Solution Details	Monitor is not running BridgeB (Axis %1) Internal communication error. Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-

7000	Message Description Solution Details	ThreeLevel MiddleVoltage (Axis %1) Internal voltage is out of hardware limit. Contact Triamec-Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7001	Message Description Solution Details	Power supply or brake resistor error (Axis %1) Internal power supply or brake resistor error. Check wiring and connector of the AC-Line input. Check wiring and connector of the brake resistor. Check the main supply for power failure events. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7002	Message Description Solution Details	Reboot not allowed if enabled (Axis %1) Rejected a reboot command because an axis is enabled. Ensure all axes are disabled before commanding a reboot. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7003	Message Description Solution Details	Localbus timeout (Axis %1) Internal communication error. Contact Triamec Motion AG if the error persists. Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
7004	Message Description Solution Details	Signal Processor unknown address (Axis %1) The register General.Commands.SignalProcessors[].Uri contains an unknown URI Address. Check the value to be a valid URI address. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7005	Message Description Solution Details	Signal Processor unknown mode or too many high speed acquisitions (Axis %1) The value in register General.Commands.SignalProcessors[].Mode is unknown or there are too many high speed acquisitions. Reduce the number of other acquisitions running, such as a 50kHz/100kHz scope or check if the firmware supports the selected mode. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7007	Message Description Solution Details	Localbus (Axis %1) The value pair in registers General.Parameters.Localbus.Device and Address is invalid. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7008	Message Description Solution Details	Internal Hardware Coding faulty or unknown. (Monitor) (Axis %1) The coding of the Monitor Hardware Type or Hardware Identification is incorrect or unknown. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:None; Firmware:FW4.19.0-

7010	Message Description Solution Details	STO-Active from enabled state(Axis %1) STO activation detected in enabled state. Disable all axes before activating STO. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7011	Message Description Solution Details	STO-Inconsistent (Axis %1) The logic levels of the STO channels are not equal. Ensure equal logic levels for both STO inputs for normal operation. Check the STO circuit if this reoccurs. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7013	Message Description Solution Details	STO-StartupTestFail (Axis %1) The safety module test running during startup failed. Contact Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7014	Message Description Solution Details	STO-SafeMode (Axis %1) The safety module entered safe mode. Consult the safety documentation. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7015	Message Description Solution Details	STO-TemperatureLimit (Axis %1) The safety module detected a temperature error. Reduce the environment temperature. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7016	Message Description Solution Details	No functional safety option (Axis %1) The safety module is in functional safety state, but the FS option is disabled. Request the FS option from Triamec Motion AG. Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7110	Message Description Solution Details	Tria-Link-Publisher illegal URI (Axis %1) Illegal URI Address in this Publisher. Ensure that the address stated in the error message is a valid register. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7111	Message Description Solution Details	Tria-Link-Publisher Channel too large or already in use (Axis %1) The Tria-Link-Channel is already in use or illegal. One Tria-Link-Channel must be used by only one Publisher. Check for multiple assignments. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7112	Message Description Solution Details	Tria-Link-Subscriber illegal URI (Axis %1) Illegal URI Address in this Subscriber. Ensure that the address stated in the error message is a valid register. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-

7113	Message Description Solution Details	Tria-Link-Subscriber Channel too large or already in use (Axis %1) The Tria-Link Channel is already subscribed or illegal. Ensure that one Channel is subscribed only once per drive. Check for multiple assignments. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7114	Message Description Solution Details	Tria-Link-Subscriber timeout (Axis %1) The data feed for the Subscriber discontinued. Ensure that the corresponding Publisher is running. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7115	Message Description Solution Details	Tria-Link-Subscriber multiple source (Axis %1) The Subscriber receives data from multiple Publishers on the same Channel. Use the two source addresses stated in the error message to find Publishers that use the same Channel. One Tria-Link-Channel must be used by only one Publisher. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
8961	Message Description Solution Details	BootError factory firmware: Install a new firmware (Axis %1) Drive fell back into factory firmware, most probably due to a failed firmware update. Install a new firmware using the update firmware procedure. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
8962	Message Description Solution Details	BootError hardware test failed (Axis %1) A critical hardware error occurred. Contact triamec Motion AG. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
8963	Message Description Solution Details	BootError unknown product ID (Axis %1) The firmware does not support the product. Install an up to date firmware. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
8964	Message Description Solution Details	BootError unknown product revision (Axis %1) The firmware does not support this hardware revision. Install an up to date firmware. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
8965	Message Description Solution Details	BootError option module missing (Axis %1) The product requires an option module which is not found. Contact Triamec-Motion AG. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
8966	Message Description Solution Details	BootError firmware is incompatible with the fieldbus of the product (Axis %1) The firmware does not support the fieldbus. Install an up to date firmware. Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-

2 ErrorReactions

If an error has an impact on the axis, the message description contains a tag that identifies the errorReaction taking place. These reactions are described in the following:

2.1 ErrorStop

If the axis is in motion, it will first enter the state "ErrorStopping" and stop using the emergency stop ramp. The axis will stay enabled (Standstill) if it was enabled before the error. The user must reset the error before the axis can receive new motion commands.

2.2 ErrorStopDisable

If the axis is in motion, it will first enter the state "ErrorStopping" and stop using the emergency stop ramp. Then it will activate the brakes if available (`Axes[].Parameters.Motor.BrakeReleaseAction`) and enter the state "Disabling". Then, it will wait until the time `Axes[].Parameters.Motor.BrakeHoldTime` is passed. Finally the axis will be disabled. The user must reset the error before the axis can be enabled again.

2.3 ErrorDisable

The brakes are activated if available (`Axes[].Parameters.Motor.BrakeReleaseAction`) but the `BrakeHoldTime` is not considered. The axis will therefore immediately disable. The user must reset the error before the axis can be enabled again.

Revision History

Version	Date	Editor	Comment
002	2022-03-22	chm	Initial fork from AN103
003	2022-06-08	sm	First release with FW 4.15
004	2022-08-16	sm	Update to FW release 4.16
005	2023-02-17	sm	Update to FW release 4.18
006	2023-10-23	mvx	Update to FW release 4.19
007	2024-04-03	mvx, ab	Update to FW release 4.22
008	2025-09-25	ab	Update to FW release 4.26, added note regarding message number ranges

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