

PA-CONTROL messages

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1 Status and operational status messages

No.		Operational status	Further information - Troubleshooting
Dec	Hex		
00	00	no communication	Controller in an undefined status
01	01	Initial position	After switch-on
02	02	Manual operation	Front plate
03	03	Manual operation	Traversing of the axes
10	0A	Automatic started	START command initiated
11	0B	Automatic running	The program defined as the "START program" is processed
12	0C	Automatic and "STOP" detected	Front plate, external STOP or bus STOP
13	0D	Automatic and process "STOP" program	Waits for an event in the "STOP-program"
15	0F	Automatic and stopped	Front plate, external STOP or bus
16	10	Automatic and process program "START" after "STOP"	Waits for an event in the "START-after-STOP program"
17	11	Automatic and malfunction detected	
18	12	Automatic and process "Malfunction program"	Waits for an event in the malfunction program
19	13	Automatic with malfunction and stopped	The program defined as the "START program" has been stopped, no further program will be processed.
20	14	Manual traversing via serial port	Motor or axis is manually traversed via WINPAC
31	1F	Online	
35	23	Online stopped	
39	27	Online stopped with malfunction	
PA-CONTROL MP CANopen slave mode			
50	32	CANopen slave mode started	
51	33	CANopen slave mode, running	
52	34	CANopen slave mode, STOP detected	
55	37	CANopen slave mode, stopped	
56	38	PA-CONTROL MP is working in measuring mode	
57	39	CANopen slave mode, malfunction detected	
59	3B	CANopen slave mode, malfunction detected and stopped	

2 Error and fault signals

CPU error message:

Code	CPU error messages	Further information - Troubleshooting
002	Bus error	CPU faulty
003	Address error	see above
004	Unimplemented command	see above
005	Division by zero	see above
006	Command chk	see above
007	Command Trapv	see above
008	Privilege violation	see above
009	Trace	see above
010	Emulator 1	see above
011	Emulator 2	see above
012	reserved	see above
013	Uninitialized interrupt	see above
014	Incorrect interrupt	see above
015	Uninitialized auto-vector1	see above
016	Uninitialized auto-vector2	see above
017	Uninitialized auto-vector3	see above
018	Uninitialized auto-vector4	see above
019	Uninitialized auto-vector5	see above
020	Uninitialized auto-vector6	"Boot" PA-CONTROL on switch-on
021	Uninitialized auto-vector7	"Boot" PA-CONTROL on switch-on
022	Uninitialized nonauto interrupt	"Boot" PA-CONTROL on switch-on
023	Uninitialized trap vector	"Boot" PA-CONTROL on switch-on
024	Uninitialized co-processor vector	"Boot" PA-CONTROL on switch-on
099	Incompatible operating system	The version of the boot system and the loaded operating system do not match. Eliminate the error by loading another version of the operating system

System error Hardware Part 1:

Code	Error message	Further information - Troubleshooting
E100	Keyboard port time-out	Keyboard removed, keyboard switched off
E101	Keyboard not ready	see above
E102	Short circuit in stepping motor output stage	Motor cable defective, motor defective
E103	Motor voltage incorrect / absent	230VAC not connected to the system? Bridge inserted in the motor connector? Motor power supply defective?
E104	Auxiliary voltages incorrect	Power supply defective
E105	Temperature in heat sink too high	Ventilation defective, ventilation clogged
E106	Motor rotation monitoring actuated	Motor run against mechanical stop, motor acceleration too high, rotary encoder wiring
E107	Phase sequence monitoring – no motor	Check motor wiring
E108	Axis type not defined	Non-existent axis addressed
E109	Axis type incorrectly defined	Hardware configuration changed
E110	Hardware configuration M-module slot	Module was exchanged, "boot" PA-CONTROL
E111	Hardware configuration IEF slot 1	Module was exchanged, "boot" PA-CONTROL
E112	Hardware configuration IEF slot 2	Module was exchanged, "boot" PA-CONTROL
E113	PLS7 interface different version	PLS7 is more recent than the operating system, match versions
E114	Axis power circuit not ready	LV-UNIT rotation monitoring error, wiring defective, LV-servoTEC supply voltage
E115	Axis module PLS7 does not exist	Hardware not connected
E116	PLS7 reports system error no.xxx	See table on page for further information
E117	PLS7 TIMEOUT	PLS7 card defective, exchange card
E118	Hardware configuration ASi Master 1	ASi master card defective or not connected
E119	Hardware configuration ASi Master 2	ASi master card defective or not connected
E120	Hardware configuration ASi Master 3	ASi master card defective or not connected
E121	Hardware configuration ASi Master 4	ASi master card defective or not connected

Code	Error message	Further information - Troubleshooting
E122	Axis module PLS6 does not exist	Check card

System error Hardware Part 2:

Code	Error message	Further information - Troubleshooting
E123	Axis module PLS8 does not exist	Check card
E124	PLS6 / PLS8 TIMEOUT on loading PIC	Hardware error in the PLS card, exchange card
E125	More than 16 axes detected	Check axis configuration
E126	Another axis type detected	Check hardware configuration, "boot" PA-CONTROL if necessary
E127	New axis type detected	Check hardware configuration, "boot" PA-CONTROL if necessary
E128	Different axis types detected	Different cards which are not permissible together are present in system. (PLS6 combined with PLS7 or servo-axis with axis number of a PLS7 card)
E129	PLS6 / PLS8 PIC not ready	Hardware error in the PLS card, exchange card.
E130	PLS6- / PLS8 PIC error checksum	Hardware error in the PLS card, exchange card
E131	EURO TP1 IEF module 1 not possible	Module not permissible on this slot
E132	EURO TP1 IEF module 2 not possible	Module not permissible on this slot
E133	EURO TP2 IEF module 1 not possible	Module not permissible on this slot
E134	EURO TP2 IEF module 2 not possible	Module not permissible on this slot
E135	EURO TP3 IEF module 1 not possible	Module not permissible on this slot
E136	EURO TP3 IEF module 2 not possible	Module not permissible on this slot
E137	EURO TP4 IEF module 1 not possible	Module not permissible on this slot
E138	EURO TP4 IEF module 2 not possible	Module not permissible on this slot
E139	EURO TP1 IEF module 1 change	Check hardware configuration, "boot" PA-CONTROL if necessary
E140	EURO TP1 IEF module 2 change	Check hardware configuration, "boot" PA-CONTROL if necessary
E141	EURO TP2 IEF module 1 change	Check hardware configuration, "boot" PA-CONTROL if necessary
E142	EURO TP2 IEF module 2 change	Check hardware configuration, "boot" PA-CONTROL if necessary
E143	EURO TP3 IEF module 1 change	Check hardware configuration, "boot" PA-CONTROL if necessary

System error Hardware Part 3:

Code	Error message	Further information - Troubleshooting
E144	EURO TP3 IEF module 2 change	Check hardware configuration, "boot" PA-CONTROL if necessary
E145	EURO TP4 IEF module 1 change	Check hardware configuration, "boot" PA-CONTROL if necessary
E146	EURO TP4 IEF module 2 change	Check hardware configuration, "boot" PA-CONTROL if necessary
E147	Permissible internal temperature of the device exceeded	See technical data
E148	Too many absolute positioning systems detected	More IEF SSI modules are connected than the number of axes
E149	Warning: discharge degree of the battery	Check battery and exchange if necessary

System error RAM contents group:

Code	Hardware error message	Further information - Troubleshooting
E150	System parameters outside range	"Boot" system parameters, "boot" PA-CONTROL if necessary
E151	Axis parameters outside range	"Boot" axis parameters, "boot" PA-CONTROL if necessary
E152	Horizontal checksum error in the ASCII program	Delete program, "boot" PA-CONTROL if necessary
E153	Horizontal checksum error in the Code program	Delete program, "boot" PA-CONTROL if necessary

Field bus error messages:

Code	BUS error message	Further information - Troubleshooting
E200	Profibus-DP error IO length	Incorrect configuration (GSD file?)
E201	Profibus-DP init error	Incorrect configuration (GSD file?)
E202	Profibus-DP unknown error	Incorrect configuration (GSD file?)
E203	RS232-CMD init error	RS 232 setting incorrect
E204	RS232-CMD hardware interrupt	Check transmission path (cable & connector)
E205	Rotary switch outside range	Incorrect setting of the rotary switch
E206	Malfunction on reading the rotary switch	Hardware error (CPU, rotary switch)

ASi system error and CMD error messages:

Code	Hardware error message	Further information - Troubleshooting
E250	ASi : Error on execution of host job	ASi master could not execute the command
E251	ASi : No error on execution of host job	ASi master could execute the command
E252	ASi : Slave does not exist	Device with the address xx does not exist
E253	ASi : Slave address 0 exists	The address 0 is not permissible in automatic or online mode
E254	ASi : Slave address already in use	Selection of another address for programming
E255	ASi : The ASi slave cannot be programmed to address 0	Check error on execution of host job
E256	ASi : The address could not be assigned to the ASi slave	Check address
E257	ASi : Address could not be stored in the EEPROM of the ASi slave	Problem with the programming of the address, repeat operation
E258	ASi : Unknown error	Repeat
E259	ASi : Timeout for transfer of command	Check ASi master card
E260	ASi : No supply voltage	Check ASi power supply
E261	ASi: Slave 0 is here	Invalid address for automatic and online mode
E262	ASi: Configuration error	Slaves on the bus do not coincide with the stored configuration

CANopen bus, Communication errors / Warnings Part 1

Code	Hardware error message	Further information - Troubleshooting
E300	Bus offline	Too many bad CANopen frames, implement EMC-compatible system design
E301	Timeout for SDO communication with CANopen module (axis, IO module)	Axis switched off, CAN connector removed
E302	Error during SDO communication with CANopen module (axis, IO module)	Axis switched off, CAN connector removed
E303	Unknown warning at the axis	Device sets warning flag, but does not describe the error.
E304	Unknown error at the axis	Device sets warning flag, but does not describe the error.
E305	Axis does not answer the SYNC frame	Axis switched off, CAN connector removed
E306	Timeout at stop of an axis	Optimize parameter "VELO"
E307	Axis not ready	Axis switched off, motor supply voltage unavailable
E308	Version of LV servoTEC operating system incorrect	The version of the operating system of LV-servoTEC is not up-to-date
E309	Different parameters in PA-CONTROL and LV-servoTEC	Match parameters
E310	Communication error with CANopen module (axis, IO module)	Axis switched off, CAN connector removed
E311	IO module does not answer NODE GUARD frame	IO module switched off, break in the cabling
E312	Index of the object does not exist	Incorrect command/parameter
E313	SUB-index of the object does not exist	Incorrect command/parameter
E314	Parameter value too high	Check parameter value in the file of the servoTEC parameters
E315	Parameter value too low	Check parameter value in the file of the servoTEC parameters
E316	Service parameters inconsistent	Error in the operating system
E317	Object may only be read	Error in the operating system
E318	Counter TX error too high	Bus malfunction (terminating resistor, cable length)
E319	Counter RX error too high	Bus malfunction (terminating resistor, cable length)
E320	"SYNC message" cannot be sent	<ul style="list-style-type: none"> • Bus malfunctions, • Error in the operating system
E321	Not all CAN axes or CAN IO modules have been initialized	<ul style="list-style-type: none"> • CAN device connected ? • Not switched on ?

Code	Hardware error message	Further information - Troubleshooting
		• at error ?

CANopen bus, Communication errors / Warnings Part 2

Code	Hardware error message	Further information - Troubleshooting
E322	Timeout for the communication with the control console	<ul style="list-style-type: none"> • Control console connected ? • Not switched on ? • at error ?
E323	Emergency message received from IO module	<ul style="list-style-type: none"> • Power supply switched off • Error in IO module • Short circuit of an output Please note error code of the module, e.g. 30xx-xx : Voltage, ... 4xxx-xx : Temperature, ... 81xx-xx : Communication, ... 90xx-xx : External error, ...
E324	CAN axis at "EMERGENCY STOP" on traversing	EMERGENCY STOP input of the axis actuated

CANopen bus error axis (servoTEC) Part 1

Code	Hardware error message	Further information - Troubleshooting
E400	Unknown error, not detailed	
E401	Error reset, error no longer present	
E402	Generic error	
E403	Not ready	e.g. initialization not yet completed, ready (BTB) signal is not available on switch-on
E404	Fault to ground (F22)	Only with 40/70 ampere devices
E405	No supply system, not ready (F16)	Controller enabling was present, although no supply voltage was present, check mains supply.
E406	Overvoltage DC link (F02)	Ballast performance limit was reached, use external ballast resistor with higher performance and alter ballast performance parameters. Supply voltage too high, use mains transformer.
E407	Undervoltage DC link (F05)	Supply voltage not available or too low for enabled servo amplifier, enable servo amplifier with at least 500ms delay.
E408	Loss of a phase of the supply system (F19)	Can be switched off for operation on two phases.
E409	Internal temperature exceeded (F13)	Upgrade ventilation
E410	Temperature of heat sink exceeded (F01)	Limit value permanently set at 80°C by the manufacturer. Upgrade ventilation
E411	Motor temperature exceeded (F06)	Thermostatic switch of motor has actuated, allow motor cool to down and check why motor is overheating Connector of the feedback unit loose or feedback line interrupted, secure connector or replace feedback line.
E412	Error in auxiliary supply (F07)	The auxiliary voltage internally generated in the LV-servoTEC is defective, send LV-servoTEC to the manufacturer for repair.

CANopen bus error axis (servoTEC) Part 2

Code	Hardware error message	Further information - Troubleshooting
E413	Error A-D converter (F17)	Error in the A-D conversion, usually an EMC disturbance, reduce EMV disturbances and check screen and grounding Possibly also hardware defect of the regulator
E414	Output stage error (F14)	Motor supply cable has a short circuit, exchange cable Motor has a ground fault or short circuit, exchange motor Output stage module has overheated; upgrade ventilation Defect of the output stage module Send servo amplifier to the manufacturer for repair. Ground fault or short circuit in the circuit of the external ballast resistor, eliminate ground fault or short circuit.
E415	Error ballast resistor (F18)	Ballast circuit defective or setting incorrect
E416	Error in application of the AS option (F27)	Activation of the AS option and the ENABLE signal are present at the same time
E417	Checksum serial EEPROM (F09)	Might be remedied by re-storage of the parameters (SAVE)
E418	Flash EEPROM (F10)	Checksum error
E419	Watchdog caused software reset (F32)	System software does not react correctly
E420	BCC error (Table)	1) E420-E426: lead to F32, Breakdown of the various causes only through output via the serial port
E421	BCC error, (system macro)	
E422	BCC error, (EEPROM serial)	
E423	FPGA error	
E424	Error (Table)	
E425	User software BCC	
E426	Defective user software BCC (F32)	System software does not react correctly
E427	Parameter error	Incorrect parameter value via PDO

1) Defective drive firmware, might be fixed by download of firmware.

The error codes F01 to F32 in brackets correspond to error messages of LV-servoTEC. See the LV-servoTEC operating instructions, Chap. 6.3 Error messages.

CANopen bus error axis (servoTEC) Part 3

Code	Hardware error message	Further information - Troubleshooting
E428	Error brake (F11)	Cable break, short circuit or ground fault of the brake line
E429	Commutation error (F25)	Motor commutation not correct, check motor cable, check parameters MPHASE, VCOMM
E430	LV-servoTEC could not be enabled	HW Enable unavailable, or error status of the servo
E431	Command only allowed if LV-servoTEC not enabled	
E432	Defective feedback unit (F04)	Cable break, short circuit or ground fault
E433	Handling error (F21)	Software error of the expansion card
E434	Response monitoring	Node-guarding error, can be reset via control word
E435	CANopen bus not ready	Faulty CAN bus communication?
E436	State machine is not operation-enabled	Control word used incorrectly
E437	Incorrect mode	Preselect correct mode
E438	Torque setting incorrect (F15)	Preset RMS current value exceeded, e.g. as a result of a stiff mechanical system, check mechanical system
E439	Overspeed (F08)	Set overspeed reached motor has possibly run away
E440	Tracking error (F03)	Message of the position controller
E441	Invalid traverse job number started	Selected traversing set was not defined
E442	Error external trajectory (F28)	Setpoint step change too large Only in SERCOS systems
E443	Fatal exception error (F32)	System software does not react correctly
E444	Error in a PDO component	Incorrect value
E445	Incorrect operating mode	Only for Rx-PDO 22
E446	Slot error (F20)	Error of the expansion card Only in servos with slot cards
E447	Warning display as error (F24)	Warning display is evaluated as an error (user-defined)
E448	Error in approach to reference point (F26)	Hardware limit switch reached
E449	Sercos error (F29)	Only in SERCOS systems
E450	Sercos	Only in SERCOS systems

The error codes F01 to F32 in brackets correspond to error messages of LV-servoTEC. See the LV-servoTEC operating instructions, Chap. 6.3 Error messages.

CANopen bus error axis (servoTEC) Part 4

Code	Hardware error message	Further information - Troubleshooting
E460	i ² T message threshold crossed	If necessary, reduce motor current, acceleration or traversing speed
E461	Ballast performance reached	
E462	Tracking error	Change drive parameter "tracking error" or, if necessary, reduce motor current, acceleration or traversing speed
E463	Response monitoring active	
E464	No mains phase	Check mains wiring or deactivate mains monitoring (PMODE)
E465	Software limit switch 1 has actuated	
E466	Software limit switch 2 has actuated	
E467	Bad traversing job started	Error in the operating system
E468	No reference point	Reference axis (G25...)
E469	Positive limit switch active	
E470	Negative limit switch active	
E471	Motor default values have been loaded	Setting of the motor parameters not yet complete
E472	Expansion card is not functioning correctly	
E473	Motor phase	
E474	Incorrect VCT entry	
E475	Warning n17 – n31	Display warning using the WINPAC-program Diagnosis -> servoTEC -> error statistics
E481	Positive limit switch actuated	
E482	Short circuit	Motor cable defective, motor defective
E483	Voltage for stepping motor output stage incorrect	230VAC not connected to the supply? Bridge inserted in the motor connector? Motor power supply defective?
E484	Auxiliary voltages incorrect	Power supply defective
E485	Temperature in the heat sink too high	Ventilation defective, ventilation clogged
E486	Motor rotation monitoring was actuated	Motor run against mechanical stop, motor acceleration too high, rotary encoder wiring
E487	Phase sequence monitoring! – no motor	Check motor wiring

Error messages in automatic mode Part 1 :

Code	Run error message	Further information - Troubleshooting
E501	External stop input not defined	Parameter
E502	External stop input cold	Stop input not connected ?
E503	STOP program unavailable	Run definition
E504	START-AFTER-STOP prog. unavailable	Run definition
E505	MALFUNCTION program unavailable	Run definition
E506	STOP program illegal command	Only use permissible commands (see Chapter 3)
E507	START after STOP prog. illegal command	Only use permissible commands (see Chapter 3)
E508	MALFUNCTION program illegal command	Only use permissible commands (see Chapter 3)
E509	Reserve	
E510	Reserve	
E511	Start program not defined	Run definition
E512	Start program unavailable	Run definition
E513	Program unavailable	Run definition
E514	Unknown command	Syntax error
E515	Nesting depth too large	Too many subroutines
E516	Too many processes started	More than 31 programs opened
E517	Value too low	Value less than e.g. the min. traverse
E518	Value too high	Value greater than e.g. the max. traverse
E519	Flag number too low	Value outside range 1-1024
E520	Flag number too high	Value outside range 1-1024
E521	Register number too low	Value outside range 1-1024
E522	Register number too high	Value outside range 1-1024
E523	Axis still running	Traversing command is still being processed
E524	Axis overrun	Axis outside traversing range
E525	No axis reference point	Reference switch defective?
E526	Data channel not initialized	Port available ?
E527	Display unavailable	IEF control terminal available
E528	Command at the data channel not possible	Port available ?
E529	Positive limit switch actuated	Switch actuated or cable break ?
E530	Negative limit switch actuated	Switch actuated or cable break ?

Error messages in automatic mode Part 2 :

Code	Run error message	Further information - Troubleshooting
E531	Limit switch actuated	Switch actuated or cable break ?
E532	Value outside range	Value outside traversing range
E533	System error, cause unknown	Error message of the operating system
E534	Profibus-DP communication switched off	Interruption of Profibus (connector, cable)
E535	AP traversing speed too high	Check setting of the parameters
E536	AP traversing speed too low	Check setting of the parameters
E537	AP reference speed too high	Check setting of the parameters
E538	AP reference speed too low	Check setting of the parameters
E539	AP manual speed too high	Check setting of the parameters
E540	AP manual speed too low	Check setting of the parameters
E541	AP creep speed too high	Check setting of the parameters
E542	AP creep speed too low	Check setting of the parameters
E543	AP Start-Stop speed too high	Check setting of the parameters
E544	AP Start-Stop speed too low	Check setting of the parameters
E545	AP acceleration too high	Check setting of the parameters
E546	AP acceleration too low	Check setting of the parameters
E547	SLEEP program not running	Program is not being executed at present
E548	Assignment of axis type for interpolation	Interpolation not possible with this hardware (only with PLS7, PLS9)
E549	PLS7 negative acknowledgement at card command	Hardware error
E550	PLS7 incorrect card mode	Hardware error
E551	COM port busy	COM1 used as RS232-OnlineCMD
E552	Axes already used by interpolation	Interpolation command uses all four axes of this PLS card during interpolation
E553	IPO – path traversing speed too high	Check parameters
E554	IPO – path traversing speed too low	Check parameters
E555	IPO – path Start-Stop speed too high	Check parameters
E556	IPO – path Start-Stop speed too low	Check parameters
E557	IPO – path acceleration too high	Check parameters
E558	IPO – path acceleration too low	Check parameters
E559	Input field too small	Error in user program
E560	Rotary encoder error on synchronization	Hardware error

Error messages in automatic mode Part 3 :

Code	Run error message	Further information - Troubleshooting
E561	Program already running	Program can only be started once
E562	RS232 communication was disconnected	Check cabling, handshake lines
E563	Manuell approach to reference point: positive limit switch actuated	Rotational and limit switch direction incorrect
E564	Incorrect program type	Call of an incorrect program (PTX)
E565	INTERBUS_S emergency stop	INTERBUS_S was disconnected
E566	Axis not ready	Check standby power section
E567	Increments of axis range greater than 31 bits	Check definition of traversing range
E568	Approach to reference point not possible	Check servoTEC communication
E569	STORE command executed incorrectly	Check placeholder for characters in the program
E570	Number of revolutions greater than maximum	<p>Check definition of traversing range</p> <p>Formula for calculation of the speed N:</p> $N = \frac{(\text{traversing range max} - \text{traversing range min}) * \text{Gearfactor}}{PGEARI}$ <p>(PGEARI – servoTEC parameters)</p> <p>IMPORTANT: The following applies up to version V4.72 No. of rev. < 1024</p>
E571	Command not possible with this axis	Program error
E572	Reserve, not assigned at present	
E573	Any CANopen device SDO TIME-OUT	Check whether CANopen device connected
E574	String too long	The result string would be longer than 80 characters if strings are added
E575	Traversing speed greater than 16 bits	The value would be greater than a 16 bit value in the case of a traversing command for a servoTEC axis
E576	Value cannot be read stably	
E577	Incorrect jump target	The commands JMP-LINE or JMP-LINE-IPO jump to an invalid program line
E578	Traverse of the servoTEC axis too long	<p>The traverse for a traversing command is limited to a number of revolutions</p> <ul style="list-style-type: none"> • Up to V4.73l : 1022 revolutions • from 4.74 or higher

Error messages in automatic mode Part 4 :

Code	Run error message	Further information - Troubleshooting
E579	Command not allowed in the initial position program	A command is to be executed in the "initial position" program which is not enabled for this program type e.g: <ul style="list-style-type: none">• A1:=• RUN

Communication errors :

Code	Run error message	Further information - Troubleshooting
E600	IEF module slot number not allowed	Insert module in permissible slot
E601	COM port number not allowed	Programming error
E602	COM port not installed	Addressed COM port unavailable
E603	COM port not initialized	Programming error
E604	COM port not empty for sending	Previous transmission not yet ended Programming error, Port disabled, hardware handshake
E605	COM port hardware handshake disabled	Check parameter setting and device
E606	COM port data format incorrect	Parameter setting
E607	COM port hardware not empty for sending	Previous transmission not yet ended Programming error, Port disabled, hardware handshake

Errors of the absolute dimension system :

Code	Run error message	Further information - Troubleshooting
E620	Absolute positioning system unavailable	SSI hardware error
E621	Absolute positioning system not referenced	Carry out approach to reference point
E622	Reserve, not assigned at present	
E623	Absolute positioning system SSI module not ready	Check SSI module (connection and wiring)
E624	Absolute positioning system DIN-T0 error	Parameter error
E625	Absolute positioning system DIN-Tn+ error	Parameter error
E626	Absolute positioning system initialization timeout error	Check SSI module (connection and wiring)

CANopen LV-servoTEC error :

Code	Run error message	Further information - Troubleshooting
E900	Different parameters in PA-CONTROL and LV-servoTEC	Adjust parameter value
E901	Different obligatory parameters in PA-CONTROL and LV-servoTEC	Adjust parameter value
E902	Different reference parameters in PA-CONTROL and LV-servoTEC	Adjust parameter value

PLS7- Run error message:

Code	CPU-Run error message	Weitere Informationen - Fehlerbeseitigung
2	Busfehler	Change the PLS7-card
3	Adressfehler	- „ -
4	nicht implementierter befehl	- „ -
5	Division durch Null	- „ -
6	Befehlcheck	- „ -
7	Privilegverletzung	- „ -
8	Trace Trap	- „ -
9	Emulator 1	- „ -
10	Emulator 2	- „ -
11	Reserviert	- „ -
15	nicht initialisierter Interrupt	- „ -
24	falscher Interrupt	- „ -
101	Autovektor 1 nicht initialisiert	- „ -
102	Autovektor 2 nicht initialisiert	- „ -
103	Autovektor 3 nicht initialisiert	- „ -
104	Autovektor 4 nicht initialisiert	- „ -
105	Autovektor 5 nicht initialisiert	- „ -
106	Autovektor 6 nicht initialisiert	- „ -
107	Autovektor 7 nicht initialisiert	- „ -
110	„NON Autovektor“ nicht initialisiert	- „ -
120	„Trap-Vektor“ nicht initialisiert	- „ -
130	Co-Prozessor-Vektor nicht initialisiert	- „ -
401	Generator 1 laden “Time out”	- „ -
402	Generator 2 laden “Time out”	- „ -
403	Generator 3 laden “Time out”	- „ -
404	Generator 4 laden “Time out”	- „ -
501	Quersummenfehler Generator 1 laden	- „ -
502	Quersummenfehler Generator 2 laden	- „ -
503	Quersummenfehler Generator 3 laden	- „ -
504	Quersummenfehler Generator 4 laden	- „ -
999	Software-Watchdog	- „ -

