All "Error codes" that can show up in the different displays and its description.

Washer extractors

Clarus Control display with KEB motor control

Clarus Control w. KEB "AUT. LEVEL CALIB."
The pressure sensor for the water level signals a value that is so different from the empty machine state that the automatic level calibration cannot adjust the level system.

Clarus Control w. KEB "DOOR LOCK"
Even though the door lock microswitch indicates that the door is locked the signal from the microswitch which is used to detect when the door is closed is absent.

Clarus Control w. KEB "DOOR OPEN"
Signal from microswitch which checks door status absent during program. After this error message appears and the machine is reset the machine will try again.

Clarus Control w. KEB "DOOR SWITCH TILT"
Door closed (S3) is "on" at a time when the machine door is locked open (S25).

Clarus Control w. KEB "DOOR UNLOCKED"
Signal from microswitch which detects when the door is locked absent during program.

Clarus Control w. KEB "EMERGENCY STOP"
The emergency stop button has been pressed.

Clarus Control w. KEB "HEAT RELAY"

Clarus Control w. KEB "INP.TIP ACTIVE"

Clarus Control w. KEB "INTERLOCK"
Fault in MCU receiving circuitry for lock acknowledgement signal. The test of the MCU-interlock circuits proceeds in the following way: Before the locking of the door lock a speed command is sent from the timer to the MCU (=0 Hz). Then the timer checks that the value of the apparent current (ru 15) and output (ru 20) is below the value 5 which is
a condition for locking the door. When the door is locked the timer again command running at 0 Hz and this time the apparent current and the output voltage shall have a value above 5.

Clarus Control w. KEB "IO COMMUNICATION"
Communication between the CPU board and one of the I/O boards interrupted or disturbed.

Clarus Control w. KEB "LEVEL CALIBRATION"
Every machine has individual level calibration at the factory. If these calibration values are missing or fall outside the limit values an error warning will be flagged at each program start-up. The program can still be started however
by pressing START. It will then use standard (default) values which means that the levels will not be as precise as intended.

Clarus Control w. KEB "LOW OIL LEVEL"
In machines with an oil lubrication system indicates low level in the oil container.

Clarus Control w. KEB "MACHINE OVERFILLED"
The water level is higher than the "LEVEL OVERFILL" (i.e. DRUM OVER-FILLED) level. If this function is switched off (=N) instead the drain valve will open for a short time and discharge some of the water. This is described under the function "DRAIN TIME WHEN OVERFILL" (i.e. DRAIN TIME AFTER OVER-FILLING) earlier in this section.

Clarus Control w. KEB "MIS COMM"
Machine has lost contact with network.

Clarus Control w. KEB "NO HEATING"
The temperature has not increased by the number of degrees specified in the function "MIN. TEMPERATURE INCREASE" (see back in this section) over the period of time specified in the function MAXIMUM HEATING TIME (see "SETTINGS 1").

Clarus Control w. KEB "NO MOTOR COMM"
Communication between PCU and motor control unit interrupted or disturbed.

Clarus Control w. KEB "NO WATER"
Water level has not reached set level within time set. After this error message appears and the machine is reset the machine will try again.

Clarus Control w. KEB "NOT DRAINED"
When the drain sequence has finished the water level is still higher than the EMPTY level.

Clarus Control w. KEB "NTC HIGH TEMP"
The temperature is above the highest value allowed (short-circuit in temperature sensor).

Clarus Control w. KEB "NTC LOW TEMP"
The temperature is below the lowest value allowed (open circuit in temperature sensor).

Clarus Control w. KEB "PRESS. SENSOR TILT"
Both pressure sensors are active at the same time.

Clarus Control w. KEB "PRESS.SENS. TIMOUT"
No pressure at the relevant pressure sensor within the maximum time allowed for tilt backwards or forwards.

Clarus Control w. KEB "PROGRAM ERROR"

Clarus Control w. KEB "START NOT ALLOWED"
Network does not allow programme start.

Clarus Control w. KEB "TIP DRUM ROTATION"

Clarus Control w. KEB "UNBAL SENSOR FAULT"
The unbalance switch is closed when the machine is starting on a drain sequence.

Clarus Control w. KEB "WATER IN DRUM"
The water level is higher that the level EMPTY at the start of the program.

Clarus Control w. KEB "9"

Clarus Control w. KEB "31 OVER VOLTAGE"
KEB motor control error: E.OP
Error: Overvoltage (DC-link circuit)
Occurs if DC-link viltage rises above the permissible value.
Causes:
- poor control adjustment (overshooting)
- input voltage too high
- interference
- deceleration ramps too short
- braking resistor damaged or undersized

Clarus Control w. KEB "32 UNDER VOLTAGE"
KEB motor control error: E.UP
Error: Undervoltage (DC-link circuit). At F5-G E.UP is also displayed if no communication takes place between power circuit and control card. Occurs if DC-link voltage falls below the permissable value.
Causes:
- input voltage too low or instable
- inverter rating too small
- voltage losses through wrong cabling
- the supply voltage through generator / transformer breaks down at very short ramps

Clarus Control w. KEB "33 PHASE MISSING"
KEB motor control error: E.UPh
Error: One phase of the input voltage is missing (ripple-detection)

Clarus Control w. KEB "34 OVER CURRENT"
KEB motor control error: E.OC
Error: Overcurrent
Occurs if the specific peak current is exceeded.
Causes:
- acceleration ramps too short
- the load is too big at turned off acceleration stop and turned off constant current limit
- short-circuit at the output
- ground fault
- deceleration ramp too short
- motor cable too long
- EMC

Clarus Control w. KEB "36 OVER HEAT"
KEB motor control error: E.OHI
Error: Overheating in the interior: error can only be reset at E.nOHI if the interior temperature has fallen by at least 3°C

Clarus Control w. KEB "38 OVER HEAT PM"
KEB motor control error: E.OH
Error: Overtemperature of power module. Error can only be reset at E.nOH.
Causes:
- insufficient air flow at the heat sink (soiled)
- ambient temperature too high
- ventilator clogged

Clarus Control w. KEB "39 MOTOR OVER HEAT"
KEB motor control error: E.dOH
Error: Overtemperature of motor PTC. Error can only be reset at E.ndOH if PTC is again low-resistance.
Causes:
- resistor at terminals T1/T2 > 1650 Ohm
- motor overloaded
- line breakage to the temperature sensor

Clarus Control w. KEB "41 MOTOR OVER HEAT"
KEB motor control error: E.ndOH
No longer overtemperature of motor PTC. PTC is again low-resistance

Clarus Control w. KEB "42 POWER CIRCUIT"
KEB motor control error: E.PU
Error: General power circuit fault.

Clarus Control w. KEB "44 SW VERSION"
KEB motor control error: E.PUIN
Error: Software version for power circuit and control card are different. Error cannot be reset.

Clarus Control w. KEB "45 SHUNT RELAY"
KEB motor control error: E.LSF
Error: Load-shunt relay has not picked up. Occurs for a short time during the switch-on phase but must automatically be reset immediately. If the error message remains the following causes may be applicable:
- load-shunt defective
- input voltage wrong or too low
- high losses in the supply cable
- braking resistor wrongly connected or damaged
- braking module defective

Clarus Control w. KEB "46 OVER LOAD"
KEB motor control error: E.OL
Error: Overload error can only be reset at E.nOL if OL-counter has again reached 0%
Occurs if an excessive load is applied longer than for the permissable time (see technical data).
Causes:
- poor control adjustment (overshooting)
- mechanical fault or overload in the application
- inverter not correctly dimensioned
- motor wrongly wired
- encoder damaged

Clarus Control w. KEB "48 WATCH DOG"
KEB motor control error: E.buS
Error: Adjusted monitoring time (Watchdog) of communication between operator and PC has been exceeded.

Clarus Control w. KEB "49 OVER LOAD 2"
KEB motor control error: E.OL2
Error: Overload can only be reset at E.nOL2 if cool-down time has elapsed.
Clarus Control w. KEB "51 EEPROM"
KEB motor control error: E.EEP
Error: EEPROM defective. After reset the operation is again possible (without storage in the EEPROM).

Clarus Control w. KEB "52 POWER UNIT"
KEB motor control error: E.PUCO
Error: Parameter value could not be written to the power circuit. Acknowledgemen from PC <> OK
Clarus Control w. KEB "53 BUS SYNCH"
KEB motor control error: E.SbuS
Error: Ercos - Synchronization not possible

Clarus Control w. KEB "60 RELAY TRIP"
KEB motor control error: E.OH2
Error: Electronic motor protective relay has tripped.

Clarus Control w. KEB "61 EXTERNAL FAULT"
KEB motor control error: E.EF
Error: External error. Is triggered if a digital input is being programmed as external error input and trips.

Clarus Control w. KEB "62 ENCODER"
KEB motor control error: E.ENC
Error: Cable breakage resolver or incremental encoder.

Clarus Control w. KEB "63 POWER FACTOR"
KEB motor control error: E.PFC
Error: in the power factor control.

Clarus Control w. KEB "69 SET SELECTION"
KEB motor control error: E.SET
Error: Set selection: It has been attemped to select a locked parameter set.

Clarus Control w. KEB "76"
KEB motor control error: E.PRF
Error: Locked direction of rotation clockwise.

Clarus Control w. KEB "77"
KEB motor control error: E.PRR
Error: Locked direction of rotation counter-clockwise.

Clarus Control w. KEB "79"
KEB motor control error: E.PUCI
Error: during the initialization the power circuit could not be recognized or was identified as valid.

Clarus Control w. KEB "80 POWER ID INVALID"
KEB motor control error: E.PUCH
Error: Power circuit identification was changed: with a valid power circuit this error can be reset by writing to SY.3. If the value displayed in SY.2 is written only the power-circuit dependent parameters are reinitialized. If any other value is written the the default is loaded.
This fault code can only occur when the power turns ON to the machine. Every time the motor control unit turns ON there will be a control of the power supply and if there is something wrong with the power supply will this error code "E.Puch" show up in the display on the motor control AND "interlock error in the Clarus Control display. If the power supply is so bad or have too many interference (EMC) can this cause failure in the motor control unit. If the machine always have the power supply ON will this fault code never appear as the check only is done in the start up. If the error code comes up should the power supply be turned OFF and then ON until the motor control starts up correctly without any error code.

Clarus Control w. KEB "81 DRIVER RELAY"
KEB motor control error: E.DRI
Error: Driver relay. Relay for driver voltage on power circuit has not picked up although control release was given.

Clarus Control w. KEB "82"
KEB motor control error: E.HYB
Error: Invalid encoder interface identifier.

Clarus Control w. KEB "83"
KEB motor control error: E.iEd
Error: Hardware error during the start/stop measurement.

Clarus Control w. KEB "84"
KEB motor control error: E.CO1
Error: Counter overflow encoder channel 1

Clarus Control w. KEB "85"
KEB motor control error: E.CO2
Error: Counter overflow encoder channel 2

Clarus Control w. KEB "86"
KEB motor control error: E.BR
Error: This error can occur in the case of switched on brake control (see chapter 6.9.6) if the load is below the minimum load level (Pn.58) at start up or the absence of an engine phase was detected.

Clarus Control w. KEB "87"
KEB motor control error: E.INI
Error: MFC not booted.

Clarus Control w. KEB "88"
KEB motor control error: E.OS
Error: Real speed is bigger than the max output speed.

Clarus Control w. KEB "89"
KEB motor control error: E.HYBc
Error: Encoder interface identifier has changed. It must be confirmed over ec.0 or ec.10

Clarus Control w. KEB "90"
KEB motor control error: E.ccd
Error: During the automatic motor stator resistance measurement.

Clarus Control w. KEB "91"

Clarus Control w. KEB "92"

Clarus Control w. KEB "93"

Clarus Control w. KEB "94"
KEB motor control status: FAcc
Forward acceleration

Clarus Control w. KEB "95"
KEB motor control status: FdEc
Forward deceleration

Clarus Control w. KEB "96"
KEB motor control status: Fcon
Forward constant run

Clarus Control w. KEB "97"
KEB motor control status: rAcc
Reverse acceleration

Clarus Control w. KEB "98"
KEB motor control status: rdEc
Reverse deceleration

Clarus Control w. KEB "99"
KEB motor control status: rcon
Reverse constant run

Clarus Control w. KEB "100"
KEB motor control status: LS
No direction of rotation preset

Clarus Control w. KEB "101"
KEB motor control status: SLL
Constant current limit active

Clarus Control w. KEB "102"
KEB motor control status: LAS
Acceleration stop active

Clarus Control w. KEB "103"
KEB motor control status: LdS
Deceleration stop active

Clarus Control w. KEB "104"
KEB motor control status: SSF
Speed search function active

Clarus Control w. KEB "105"
KEB motor control status: dcb
DC-brake active

Clarus Control w. KEB "106"
KEB motor control status: bbL
Power modules for motor de-excitation locked

Clarus Control w. KEB "107"
KEB motor control status: dLS
No direction of rotation preset after DC-brake

Clarus Control w. KEB "108"
KEB motor control status: POFF
Power-Off-function active

Clarus Control w. KEB "109"
KEB motor control status: StOP
Quick stop active

Clarus Control w. KEB "110"
KEB motor control status: HCL
Hardware current limit active

Clarus Control w. KEB "111"
KEB motor control status: SrA
Search for reference point approach active

Clarus Control w. KEB "112"
KEB motor control status: ccd
Measurement of the motor stator resistance

Clarus Control w. KEB "113"
KEB motor control status: POSI
Positioning function active

Clarus Control w. KEB "114"
KEB motor control status: PLS
No direction of rotation after Power-Off

Clarus Control w. KEB "115"
KEB motor control status: bon
Brake control. Brake engaged

Clarus Control w. KEB "116"
KEB motor control status: boff
Brake control. Brake released

Clarus Control w. KEB "117"
KEB motor control warning: A.OHI
Warning: overtemperature in the interior

Clarus Control w. KEB "118"
KEB motor control warning: A.nOH
Warning: no more overtemperature of power module

Clarus Control w. KEB "119"
KEB motor control warning: A.OH
Warning: Overtemperature of power module

Clarus Control w. KEB "120"
KEB motor control warning: A.EF
Warning: external error

Clarus Control w. KEB "121"
KEB motor control warning: A.ndOH
Warning: no more overtemperature of motor PTC. Motor PTC is low-resistance again.

Clarus Control w. KEB "122"
KEB motor control warning: A.nOHI
Warning: no more overtemperature in the interior

Clarus Control w. KEB "123"
KEB motor control warning: A.buS
Warning: Watchdog for communication between operator/control card has responded

Clarus Control w. KEB "124"
KEB motor control warning: A.PRF
Warning: locked direction of rotation clockwise.

Clarus Control w. KEB "125"
KEB motor control warning: A.PRR
Warning: locked direction of rotation counter-clockwise

Clarus Control w. KEB "126"
KEB motor control warning: A.dOH
Warning: overtemperature of motor PTC

Clarus Control w. KEB "127"
KEB motor control warning: A.OH2
Warning: electronic motor protective relay has tripped

Clarus Control w. KEB "128"
KEB motor control warning: A.nOL
Warning: no more overload. OL counter has reached 0%.

Clarus Control w. KEB "129"
KEB motor control warning: A. OL
Warning: Overload can only be reset at A.nOL if OL counter has again reached 0%.

Clarus Control w. KEB "130"
KEB motor control warning: A.OL2
Warning: Overload can only be reset at A.nOL2 if cool-down time has elapsed

Clarus Control w. KEB "131"
KEB motor control warning: A.nOL2
Warning: no more overload. The cool-down time has elapsed

Clarus Control w. KEB "132"
KEB motor control warning: A.SET
Warning: set selection: It has been attempted to select a locked parameter set.

Clarus Control w. Zeltron

Clarus Control w. Zeltron "9"

Clarus Control w. Zeltron "16"
Over-/Under-load of scale or weight above limit for maximum allowed
weight at wash module start.

Clarus Control w. Zeltron "34"

Clarus Control w. Zeltron "42"

Clarus Control w. Zeltron "AUT. LEVEL CALIB."
The pressure sensor for the water level signals a value that is so different from the empty machine state that
the automatic level calibration cannot adjust the level system.

Clarus Control w. Zeltron "DOOR LOCK"
Even though the door lock microswitch indicates that the door is locked the signal from the microswitch which
is used to detect when the door is closed is absent.Signal from microswitch which detects when the door is
locked absent during program.

Clarus Control w. Zeltron "DOOR OPEN"
Signal from microswitch which checks door status absent during program. After this error message appears and the machine is reset the machine will try again.

Clarus Control w. Zeltron "DOOR SWITCH TILT"
Door closed (S3) is "on" at a time when the machine door is locked open (S25).

Clarus Control w. Zeltron "DOOR UNLOCKED"
Signal from microswitch which detects when the door is locked absent during program.

Clarus Control w. Zeltron "EMERGENCY STOP"
The emergency stop button has been pressed.

Clarus Control w. Zeltron "HEATSINK TO HOT"
Temperature of MCU control circuits too high

Clarus Control w. Zeltron "HIGH DC VOLTAGE"
DC voltage too high

Clarus Control w. Zeltron "INTERLOCK HARDWARE"
Fault in MCU receiving circuitry for lock acknowledgement signal.

Clarus Control w. Zeltron "INTERLOCK STATUS"
The motor control system for frequency-controlled motors (EWD) receives a signal direct from the door lock which indicates that the door really is closed. If this signal is lost a fault signal is sent to the PCU

Clarus Control w. Zeltron "IO COMMUNICATION
Communication between the CPU board and one of the I/O boards interrupted or disturbed.

Clarus Control w. Zeltron "KLIXON CIRCUITS"
Hardware fault temperature monitoring motor

Clarus Control w. Zeltron "LEVEL CALIBRATION"
Every machine has individual level calibration at the factory. If these calibration values are missing or fall outside the limit values an error warning will be flagged at each program start-up. The program can still be started however by pressing START. It will then use a standard (default) value which means that the levels will not be as precise as intended.

Clarus Control w. Zeltron "LINE INTERRUPT"
One phase missing for/at motor control unit

Clarus Control w. Zeltron "LOW DC VOLTAGE"
DC voltage too low

Clarus Control w. Zeltron "LOW OIL LEVEL"
In machines with an oil lubrication system indicates low level in the oil container.

Clarus Control w. Zeltron "MACHINE OVERFILLED"
The water level is higher than the "LEVEL OVERFILL" (i.e. DRUM OVER-FILLED) level. If this function is switched off (=N) instead the drain valve will open for a short time and discharge some of the water. This is described under the function "DRAIN TIME WHEN OVERFILL" (i.e. DRAIN TIME AFTER OVER-FILLING) earlier in this section.

Clarus Control w. Zeltron "MIS COMM"
Machine has lost contact with network.

Clarus Control w. Zeltron "MOTOR SHORTNING"
Short-circuit between motor windings or to earth.

Clarus Control w. Zeltron "MOTOR TO HOT"
Motor thermal protection has tripped

Clarus Control w. Zeltron "NO HEATING"
The temperature has not increased by the number of degrees specified in the function "MIN. TEMPERATURE INCREASE" (see back in this section) over the period of time specified in the function MAXIMUM HEATING TIME (see "SETTINGS 1").

Clarus Control w. Zeltron "NO INTERLOCK"
The motor has received a start command from the PCU without receiving an interlock signal from the door lock. The MCU receiving circuitry for the interlock signal is not faulty.

Clarus Control w. Zeltron "NO MOTOR COMM"
Communication between PCU and motor control unit interrupted or disturbed.

Clarus Control w. Zeltron "NO WATER"
Water level has not reached set level within time set. After this error message appears and the machine is reset the machine will try again.

Clarus Control w. Zeltron "NOT DRAINED"
When the drain sequence has finished the water level is still higher than the EMPTY level.

Clarus Control w. Zeltron "NTC HIGH TEMP"
The temperature is above the highest value allowed (short-circuit in temperature sensor).

Clarus Control w. Zeltron "NTC LOW TEMP"
The temperature is below the lowest value allowed (open circuit in temperature sensor).

Clarus Control w. Zeltron "PHASE"
Incorrect input voltage to external equipment.

Clarus Control w. Zeltron "PRESS. SENSOR TILT"
Both pressure sensors are active at the same time.

Clarus Control w. Zeltron "PRESS.SENS. TIMEOUT
No pressure at the relevant pressure sensor within the maximum time allowed for tilt backwards or forwards.

Clarus Control w. Zeltron "PROGRAM ERROR"

Clarus Control w. Zeltron "RIPPEL ON DC BUS"
DC level varying too much

Clarus Control w. Zeltron "START NOT ALLOWED"
Network does not allow programme start.

Clarus Control w. Zeltron "TACHO ERROR"

Clarus Control w. Zeltron "TO HIGH WASH SPEED"

Clarus Control w. Zeltron "UNBAL SENSOR FAULT"
The unbalance switch is closed when the machine is starting on a drain sequence.

Clarus Control w. Zeltron "UNBALANCE SWITCH ON"

Clarus Control w. Zeltron "WATER IN DRUM"
The water level is higher that the level EMPTY at the start of the program.

Compass Control user interface with Gen. 6- timer

Compass Control "ERROR 001 NO WATER"
Water level is not confirmed within set time. Check that water vales are open.

Compass Control "ERROR 002 DOOR OPEN"
Door closed signal is missing during operation. Open and close the door.

Compass Control "ERROR 003 DOOR LOCK FAIL"
Door lock closed signal is missing within preset time. Open and close the door.

Compass Control "ERROR 004 NTC LOW TEMP"

Compass Control "ERROR 005 NTC HIGH TEMP"

Compass Control "ERROR 006 WATER IN MACHINE"

Compass Control "ERROR 007 OVERFILLED"
Water level is above preset safety value during wash. Try to restart the machine.

Compass Control "ERROR 008 NO HEAT"

Compass Control "ERROR 009 KLIXON"

Compass Control "ERROR 010 DRUM NOT DRAINED"
Water level is above preset value after drain. Check that drain not is restricted by lint or foam. Try to restart the machine.

Compass Control "ERROR 011 UNB.ON AT PROG.START"

Compass Control "ERROR 012 PROGRAM FAILURE"

Compass Control "ERROR 013 NO MOTOR COMM."

Compass Control "ERROR 014 LEVEL ADJUST"

Compass Control "ERROR 015 EMERGENCY STOP"

Compass Control "ERROR 017 DOOR LOCK"

Compass Control "ERROR 018 MIS/CMIS APPROVAL"

Compass Control "ERROR 019 MASTER COMM."

Compass Control "ERROR 020 I/O INTERLOCK"

Compass Control "ERROR 021 I/O COMMUNICATION"

Compass Control "ERROR 022 OIL"

Compass Control "ERROR 023 NO I/O ADDRESS."

Compass Control "ERROR 024 CHECKSUM FROM DLCU"

Compass Control "ERROR 027 LEVEL OFFSET"

Compass Control "ERROR 028 CPU/DLCU LOW LEVEL"

Compass Control "ERROR 031 HEATSINK TO HOT"

Compass Control "ERROR 032 MOTOR TOO HOT"

Compass Control "ERROR 033 NO INTERLOCK"

Compass Control "ERROR 035 MOTOR SHORT CIRCUIT"

Compass Control "ERROR 036 INTERLOCK HARDWARE"

Compass Control "ERROR 037 LOW DC VOLTAGE"

Compass Control "ERROR 038 HIGH DC VOLTAGE"

Compass Control "ERROR 043 UNB.SWITCH RDC/MCU ON"

Compass Control "ERROR 044 SPEED TOO HIGH"

Compass Control "ERROR 045 MOTOR NOT FOLLOW"

Compass Control "ERROR 051 CHECKSUM FROM CPU"

Compass Control "ERROR 052 CHARGE CIRCUIT"

Compass Control "ERROR 053 CPU/DLCU HIGH LEVELS"

Compass Control "ERROR 054 TACHO. NO SET SIGNAL"

Compass Control "ERROR 056 SET SPEED DOOR OPEN"

Compass Control "ERROR 058 SET SIGNAL. NO TACHO"

Compass Control "ERROR 060 ACTUATOR CIRCUIT"

Compass Control "ERROR 062 WATER. DOOR UNLOCKED"

Exacta Control

Exacta Control "01E"
Water level ACK not received within the prescribed time.

Exacta Control "02E"
No signal from the "Door closed" switch during programme operation.

Exacta Control "03E"
No signal from the "Door locked" switch at programme start during programme operation.

Exacta Control "04E"
The temperature sensor indicates a temperature below -5 degree C or interruption in sensor.

Exacta Control "05E"
The temperature sensor indicates a temperature above 98 degrees C or short circuit in sensor.

Exacta Control "06E"
The water level is too high at programme start (above the safety level).

Exacta Control "07E"
The water level is too high during programme operation (above the measurable level).

Exacta Control "08E"
The water temperature rises too slowly

Exacta Control "10E"
The water level is above the safety level after the drain sequence.

Exacta Control "11E"
Mechanical unbalance always activated.

Exacta Control "12E"
The programme unit cannot read the programme memory (EPROM).

Exacta Control "13E"
The programme unit cannot communicate with the motor controller.

Exacta Control "14E"
The water level system has not been calibrated (hardware calibration).

Exacta Control "17E"
The signal from the "Door locked" switch is present although there is no signal from the "Door closed" switch.

Exacta Control "18E"
CALCAD 4400 doesn't allow start of selected program.

Exacta Control "19E"
Communication between CALCAD 4400 and the programme unit card has been interrupted.

Exacta Control "21E"
Microprocessor error (configuration register).

Exacta Control "22E"
The level system indicates such a wrong value at program start that the automatic level calibration cannot correct the fault.

Exacta Control "31E"
The motor controller indicates the temperature is too high on the motor controller dissipator.

Exacta Control "32E"
The motor controller indicates the thermal protector of the motor has triggered.

Exacta Control "33E"
The motor controller receives a start command from the programme unit without receiving an interlock ACK ("Door locked" signal).

Exacta Control "35E"
The motor controller indicates a short circuit in the motor windings cabling or internally in the motor controller.

Exacta Control "36E"
The motor controller indicates an error in the interlock receiving circuit.

Exacta Control "37E"
The motor controller indicates the DC voltage.

Exacta Control "38E"
The motor controller indicates the DC voltage level is too high.

Exacta Control "41E"
The motor controller indicates an error in the thermal protection circuits of the motor.

Exacta Control "43E"
The RDC card indicates the imbalance switch has trigged when motor is stopped.

Exacta Control "45E"
The RDC card indicates tacho pulses missing at requested revolutions.

Gen 5 MP

Gen 5 MP "15E"
Door lock fault. The lock has a mechanical fault

Gen 5 MP "16E"
Wrong calibrated weight measuring system. Press START to start wash program. The program will now run but the weight will be set to 5 kg.

Gen 5 MP "20E"
Motor control unit has nor received signal for lock acknowledgement during program.

Gen 5 MP "30E"
Communication error between motor control unit and timer board

Gen 5 MP "40E"
WE55MP fault in motor control. Motor has been running faster than expected.

Error codes in KEB F4/F5 motor control display

KEB Error "E. EF"
ERROR external fault
31 Error: External error. Is triggered, if a digital input is being programmed as external error input and trips.

KEB Error "E. OC"
ERROR overcurrent
4 Error: Overcurrent
Occurs if the specified peak current is exceeded.
Causes:
- acceleration ramps too short
- the load is too big at turned off acceleration stop and turned off constant current limiot
- short-circuit at the output
- graund fault
- deceleration ramp too short
- motor cable too long
- EMC
- DC brake at high ratings active (see 6.9.3)

KEB Error "E. OH"
ERROR overheat power module
8 Error: Overtemperature of power module. Error can only be reset at E.nOH.
Causes:
- insufficient air flow at the heat sink (soiled)
- ambient temperature too high
- ventilator blocked

KEB Error "E. OL"
ERROR overload
16 Error: Overload error can only be reset at E.nOL if OL-counter reaches 0% again.
Occurs if an excessiveload is applied longer than for the permissible time (see technical data).
Causes:
- poor control adjustment (overshooting)
- mechanical fault or overload in the application
- inverter not correctly dimensioned
- motor wrongly wired
- encoder damaged

KEB Error "E. OP"
ERROR overpotential (voltage)
1 Voltage in the DC-link cicuit is too high.
Occurs if the DC-link circuit voltage exceeds the permisible value.
Caueses:
- poor controller adjustment (overshooting)
- input voltage too high
- interference voltages at the input
- deceleration ramp to short
- braking resistor defective or too small

KEB Error "E. Pu"
ERROR power unit
12 Error: General power circuit fault (for example fan).

KEB Error "E.buS"
ERROR bus
18 Error: Adjusted monitoring time (Watchdog) of communication between operator and PC / operator and inverter has been exceeded.

KEB Error "E.dOH"
ERROR drive overheat
9 Error: Overtemperature of motor PTC. Error can only be reset at R.ndOH if PTC is again low-resistance.
Causes:
- resistance at terminals T1/T2 > 1650 Ohm
- motor overloaded
- line breakage to the temperature sensor

KEB Error "E.iEd"
ERROR input error defect
53 Error: Error at PNP/NPN switching or input failure.

KEB Error "E.InI"
ERROR initialisation MFC
Error: MFC not booted.

KEB Error "E.LSF"
ERROR load shunt fault
15 Error: Load-shunt relay has not picked up. Occurs for a short time during the switch-on phase but must automatically be reset immediately. If the error message remains the following causes has to be considered:
- load-shunt defective
- input voltage wrong or too low
- high losses in the supply cable
- braking resistor wrongly connected or damaged
- braking module defective

KEB Error "E.ndOH"
no ERROR drive overheat
11 Motor temperature switch or PTC at terminals T1/T2 is again in the norma operating range. The error E.dOH can be reset now.

KEB Error "E.nOH"
no ERROR over heat power module
36 Temperature of the heat sink is again in the correct operating range. The error E.OH can be reset now.

KEB Error "E.nOL2"
no ERROR overload 2
20 (see E.nOL) The cooling time has elepsed. The error E.OL2 can be reset now.

KEB Error "E.nOL"
no ERROR overload
17 No more overload. OL-counter has reached 0%. After the error E.OL a cooling phase must elapse. This message appears upon completion of the cooling phase. The error E.OL can be reset now.
THE INVERTER MUST REMAIN SWITCHED ON DURING THE COOLING PHASE.

KEB Error "E.OH2"
ERROR motor protection
30 Error: Electronic motor protective relay has tripped.

KEB Error "E.OL2"
ERROR overload 2
19 Error: Occurs if the standstill constant current is exceeded (see technical data and overload characteristics). The error can only be reset if the cooling time has elapsed and E.nOL2 is displayed.

KEB Error "E.OS"
ERROR over speed
58 Error: Actual speed is bigger than the max. output speed.

KEB Error "E.Puch"
ERROR power unit changed
50 Error: Power circuit identification was changed with a valid power circuit this error can be reset by writing to SY.3. If the value displayed in SY.3 is written only the power-circuit dependent parameters are reinitialized. If any other value is written then the default set is loaded. THIS PROCEDURE SHOULD ONLY BE DONE IF THERE HAS BEEN REALLY A POWER CIRCUIT CHANDE!! On some systems efter writing Sy.3 a Power-On-Reset is necessary.

KEB Error "E.Puci"
ERROR power unit code invalid
49 Error: During the initialization the power circuit could not be recognized or was identified as invalid.

KEB Error "E.PUCO
ERROR power unit communication.
22 Error: Parameter value could not be written to the power circuit. Acknowledgement from PC<>OK

KEB Error "E.PUIN"
ERROR power unit invalid
14 Error: Software version for power circuit and control card are different. Error cannot be reset (only at F5-G B-housing)

KEB Error "E.SEt"
ERROR set
39 It has been attempted to select a locked parameter set. Programmed response "Error. Restart after reset" (see chapter 6.7 "Response to errors or warning messages").

KEB Error "E.UPh"
ERROR phase failure
3 Error: One phase of the input voltage is missing (ripple-detection)

KEB Error "E.UP"
ERROR underpotential (voltage)
2 Error: Undervoltage (DC-link circuit). Occurs if DC-link voltage falls below the permissible value.
Causes:
- input voltage too low or instable
- inverter rating too small
- voltage losses through wrong cabling
- the supply voltage through generator / transformer breaks down at very short ramps
- At F5-G housing B E.UP is also displayed if no communication takes place between power circuit and control card.
- Jump factor (Pn.56) too small (see 6.9.20)
- if a digital input was programmed as external error input with error massage E.UP (Pn.56).

KEB Status "bbL"
base block
76 Power modules for motor de-excitation locked.

KEB Status "dcb"
DC brake
75 Motor is decelerated by a DC-voltage at the output (see chapter 6.8 "DC-Braking").

KEB Status "dLS"
low speed / DC brake
77 Modulation is switchd of after DC-braking (see chapter 6.9 "DC-Braking").

KEB Status "FAcc"
forward acceleration
64 Acceleration with the adjusted ramps in clockwise direction of rotation.

KEB Status "Fcon"
forward constant
66 The acceleration / deceleration phase is completed and the motor is driven with constant speed / frequency in clockwise direction of rotation.

KEB Status "FdEc"
forward deceleration
65 Deceleration with the adjusted ramps in clockwise direction of rotation.

KEB Status "HCL"
hardware current limitation
80 This message is displayed if the output current reaches the hardware current limit.

KEB Status "IdAtA"
invalid Data
The parameter address adjusted for this parameter value is invalid

KEB Status "LAS"
LA stop
72 This message is displayed if during acceleration the load is limited to the adjusted load level.

KEB Status "LdS"
Ld stop
73 This message is displayed if during deceleration the load is limited to the adjusted load level or the DC-link current to the adjusted voltage level.

KEB Status "LS"
low speed
70 No direction of rotation is set. Modulation is off.

KEB Status "noP"
no operation
0 Control release (terminal ST) is not switched.

KEB Status "nO_PU"
power unit not ready
13 Power circuit not ready or not identified by the control

KEB Status "PLS"
low speed / power off
84 No modulation after Power-Off.

KEB Status "POFF"
power off function
78 Depending on the programming of the function (see chapter 6.9 "Power-off function") the inverter restarts automatically upon system recovery or after a reset.
KEB Status "rAcc"
reverse acceleration
67 Acceleration with the adjusted ramps in anti-clickwise direction of rotation.

KEB Status "rcon"
reverse constant
69 The acceleration / deceleration phase is completed and the motor is driven with constant speed / frequency in anticlockwise direction of rotation.

KEB Status "rdEc"
reverse deceleration
68 Deceleration with the adjusted ramps in anti-clockwise direction of rotation.

KEB Status "SLL"
stall
71 This message is displayed if during constant operation the load is limited to the adjusted current limit.

KEB Status "SSF"
speed search
74 The speed search function is active. That means that the inverter attempts to synchronize onto a running down motor.

KEB Status "StOP"
quick stop
79 The message is displayed if as response to a warning signal the quick-stop function becomes active.

KEB Warning "A.buS"
ABNORMAL STOP bus
93 Warning: Watchdog for communication between operator/control card or operator/PC has responded. The response this warning can be programmed (see chapter 6.7 "Response to errors and warning messages").

KEB Warning "A.dOH"
ABNORMAL STOP drive over heat
96 Warning: The motor temperature has exceeded an adjustable warning level. The switch of time is started. The response to this warning can be programmed (see chapter 6.7 "Response to errors or warning messages"). This warning can be generated only with a special power circuit.

KEB Warning "A.EF"
ABNORMAL STOP external fault
90 Warning: This warning is triggered via an external input. The response to this warning can be programmed (see chapter 6.7 "Response to errors or warning messages").

KEB Warning "A.ndOH"
no ABNORMAL STOP drive over heat
91 The motor temperature is again below the adjusted warning level. The switch off time is stopped.

KEB Warning "A.nOH"
no ABNORMAL STOP over heat power module
88 The heat sink temperature is again below the adjusted warning level.

KEB Warning "A.nOL2"
no ABNORMAL STOP overload 2
101 The cooling time after "A.OL2" has elapsed. The warning message can be reset.

KEB Warning "A.nOL"
no ABNORMAL STOP overload
98 No more overload. OL counter as reached 0%.

KEB Warning "A.OH2"
ABNORMAL STOP motor protection
97 Warning: Electronic motor protective relay has tripped. The response to this warning can be programmed (se chapter 6.7 "Response to errors or warning messages").

KEB Warning "A.OH"
ABNORMAL STOP overheat power module
89 Warning: A level can be defined. When it is exceeded this warning is displayed. A response to this warning can be programmed (see chapter 6.7 "Response to errors or warning messages").

KEB Warning "A.OL2"
ABNORMAL STOP overload 2
100 Warning: This warning is displayed when the standstill continuous current is exceeded (see technical data and overload characteristics). the response to this warning can be programmed (see chapter 6.7 "Response to errors or warning messages"). The warning message can only be reset after cooling time has elapsed.

KEB Warning "A.OL"
ABNORMAL STOP overload
99 Warning: A level betweem 0 and 100% of the load counter can be adjusted. When it is exceeded this warning is displayed. The response to this warning can be programmed (see chapter 6.7 "Response to errors or warning messages").

KEB Warning "A.SEt"
ABNORMAL STOP set
102 Warning: set selection: It has been attempted too select a locked parameterset. The response to this warning can be programmed (see chapter 6.7 "Response to errors or warning messages").

Tumble dryers
Selecta Control I, II and with Compass Control user interface

Selecta Control "E 01"
Inlet air - input temperature is too high - The temperature of the air entering the drum is too high. Error code is not shown in the display from version 3.22

Selecta Control "E 02"
Outlet air - Output temperature is too high - The temperature of the air leaving the drum is too high. Error code is not shown in the display from version 3.22

Selecta Control "E 03"
Inlet air - Sensor has short circuited. The thermistor element measured the air inlet temerature to the drum
or the wiring to the sensor has shorted.

Selecta Control "E 04"
Outlet air - Sensor has short circuited. The thermistor element measured the air outlet temperature from the drum
or the wiring to the sensor has shorted.

Selecta Control "E 05"
Blower Motor 1: The thermal protection switch in the motor or its harness is open.

Selecta Control "E 06"
Drum motor - Motor 2: The thermal protection switch in the motor or its harness is open.

Selecta Control "E 07"
Option

Selecta Control "E 08"
Inlet and Outlet air protection thermostats. One of the protection thermostats has opened due to overheating.

Selecta Control "E 09"
Option

Selecta Control "E 10"
Setting. Programming error / incorrect or missing parameter(s)

Selecta Control "E 11"
Drying error. Maximum allowable RMC time exceeded (non-coin operated models only)

Selecta Control "E 12"
Drying error. Maximum allowable Autostop time exceeded (non-coin operated models only)

Selecta Control "E 13"
Drying error - Requested drying time is longer than maximum allowed (dryer connected to a payment system).

Selecta Control "E 14"
Gas error - A flame was not detected on gas heated dryers.

Selecta Control "E 15"
Vacuum switch. The vacuum switch/pressostat does not shut within 12 seconds after the dryer is started.

Selecta Control "E 16"
Vacuum switch - The vacuum switch was already closed when an attempt to start the dryer was made.

Selecta Control "E 17"
Input sensor disconnected. The inlet thermistor or wiring to the thermistor is open.

Selecta Control "E 18"
Output sensor disconnected. The outlet thermistor or wiring to the thermistor is open.

Selecta Control "E 20"
CMIS out of operation. The dryer is put out of order in the PC programme.

Selecta Control "E 21"
CMIS com- board poll error. The PC does not poll the dryer within the time out.

Selecta Control "E 22"
LM 10 com- board poll error. The PC does not poll the dryer within the time out.

Selecta Control "E 24"
The condens container is full (only condens machines)

Selecta Control "E 99"
Communication error - The user module does not receive communication from the main board - (user module and main board).

Basic II, III

Basic II and III "F1"
Setting of machine type and variety is missing. "F1" is shown while the print board is being changed or if the power is connected to the machine while the service program is active. (Machine type and variety should be set in the service program).

Basic II and III "F4"
The thermal sensor is disconnected. Loose or broken connection.