

8. Trouble Shooting

Error 005

Meaning: Display scratched
Reason: transparent cover of display only
Action: change top of housing

Error 007

Meaning: accuracy problems with testparameter
(not with check)
Reason: wrong handling
Action: comment with parametername

Error 008

Meaning: Tab fixation problems
Reason: door (flap) / lid problem
Action: see Error 091

Error 009

Meaning: Measurement interrupt
(Microswitch problem Optomech.unit / see Error 095)
Reason: EMI problems, Lid problems, Microswitch problems
Action: switch instrument OFF / ON
|
check Measuring chamber lid
|
use MEASURING CHAMBER FLAP
|
change Optomechanical unit
|
use WHITE-STRIP CALIBRATION an CHECK-STRIP REMISSION

Error 010

Meaning: magnetic reading problem
Reason: code error / no program etc. comment if Lid
Action: use READING MAGNETIC CODE
|
FAIL | PASS
| |
change Optomechanical unit | instrument o.k.
|
use WHITE-STRIP
CALIBRATION an CHECK-
STRIP REMISSION

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Error 029

Meaning:	ambient temp. too low
Reason:	<ol style="list-style-type: none">1. ambient temperature too low2. AT sensor defective
Action:	<ol style="list-style-type: none">1. operate instrument at ambient temperature2. check AT sensor use HEATHER-TEMPERATURES<ul style="list-style-type: none">- check ambient temperature, use Temperature sensor from Service Case- change Optomechanical unit use WHITE-STRIP CALIBRATION and CHECK-STRIP REMISSION

Error 030

Meaning:	ambient temp. too high
Reason:	<ol style="list-style-type: none">1. ambient temperature too high2. Fan obstructed3. Fan defective4. AT sensor defective
Action:	<ol style="list-style-type: none">1. operate instrument at ambient temperature (no direct sunlight)2. clean ventilation slot place instrument on a plane solid surface3. see Error 0044. check AT sensor use HEATHER-TEMPERATURES<ul style="list-style-type: none">- check ambient temperature use Temperature sensor from Service Case- change Optomechanical unit use WHITE-STRIP CALIBRATION and CHECK-STRIP REMISSION

8. Trouble Shooting

Error 085

Meaning:	Error during data transfer RS 232 C
Reason:	only Reflotron
Action:	switch Reflotron OFF / ON, check internal cable

Error 086

Meaning:	no display (display out of function, power LED off, no controller initialization)
Reason:	Power supply unit defect
Action:	check Mains fuse check Fuses S2, S3 on Power supply board check Mains switch (115V/230V AC on BU-N1 missing) check AC socket check DC socket (12V DC on St1 Power supply board missing) check Transformer (18V eff on BU-N3 missing) check Power supply board (10-35V DC on BU1 missing) check DC/DC board (+5V on BU6 pin1 DC/DC board missing)

8. Trouble Shooting

Error 087

Meaning: no Display (power LED on, controller init. PASS, Fan o.k.)

Reason: Display board defective, Master board defective

Action:

- change Display board
- switch instrument ON
- FAIL
- change Master board
- use SERIALNUMBER
- use SET DATE/TIME
- PASS
- instrument o.k.

Error 088

Meaning: no Display (power LED on, controller init. FAIL, Fan defective)

Reason: DC/DC board defective

Action: change DC/DC board

8. Trouble Shooting

Error 089

Meaning:	no magnetic code
Reason:	<ol style="list-style-type: none">1. reagent carrier inserted faulty2. reagent carrier magnetic code erased, damaged3. carrier has no magnetic strip4. Control board defective5. magnetic head misaligned
Action:	<ol style="list-style-type: none">1. insert correctly2. use new reagent carrier3. use program strip4. check control board use VOLTAGES5. change Optomechanical unit use WHITE-STRIP CALIBRATION and CHECK-STRIP REMISSION

Error 090

Meaning:	intensive dirt on Upper heater / out of calibration (Calibration and/or cleaning required. Comment values)
Action:	- clean Optomechanical unit (see Service Manual) use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION

Error 091

Meaning:	Lid/Door defect (Comment if part missing/broken)
Action:	use MEASURING CHAMBER FLAP

Error 092

Meaning:	dirt/foreign bodies Optomechanical unit (not Error 090)
Action:	- clean Optomechanical unit (see Service Manual) use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION

Error 093

Meaning:	bad contact between moduls
Reason:	cable defect. Comment cable
Action:	check connections

Error 094

Meaning:	part of housing replaced
Action:	need ID.-NO. of part, or comment if part of kit

8 Trouble Shooting

Error 095

Meaning: microswitch problem Optomechanical unit
(bad contact/misaligned. Comment lid or retension)

Action: - use STRIP IN/OUT and MEASURING CHAMBER FLAP

Error 096

Meaning: Modification

Reason: prevention

Action: comment

Error 097

Meaning: refurbished instrument

Reason: leasing(loaner – no actual failure

Action: comment

Error 098

Meaning: maintenance only

Action: comment

Error 099

Meaning: checked – no error
(also could not duplicate)

Action: comment

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Error 100

Meaning: EEPROM not rewriteable

Reason: reading/writing problems with EEPROM Master board

Action: change Master board
|
use SERIALNUMBER
|
use SET DATE/TIME

Error 101

Meaning: Timeout controller

Reason: no response from controller to Master board for within 14 sec.

Action: check cable connection
|
change Optomechanical unit
|
CHEK OPTOMECH. UNIT
├── FAIL
│ ├── change cable BU20
│ │ ├── on Control board
│ │ └── change Master board
│ └── use SET DATE/TIME
└── PASS
 └── instrument o.k.

Error 102

Meaning: Communication controller

Reason: incorrect response from Control board to Master board

Action: change Control board

enter EEPROM settings use INPUT CONTROLLER-DATA (values labeled on Optomechanical unit)
|
CHECK OPTOMECH. UNIT
├── FAIL
│ ├── change Master board
│ └── use SERIALNUMBER
│ └── use SET DATE/TIME
└── PASS
 └── instrument o.k.

8. Trouble Shooting

Error 103

Meaning: stack not correct

Reason: unexpected values in the data register
(R & D routine only)

Action: change Master board
|
use SERIALNUMER
|
use SET DATE/TIME

Error 104

Meaning: Polynom (Remission ≤ 0)

Reason: Control board defective, measurement interrupt by EMI problems

Action: switch instrument OFF / ON
|
┌─── FAIL ───┬─── PASS ───┐
| |
change Optomechanical unit instrument o.k.
|
use CHECK-STRIP REMISSION
and WHITE-STRIP CALIBRATION

Error 105

Meaning: wrong path in case

Reason: R & D routine only

Action: change Master board
|
use SERIALNUMER
|
use SET DATE/TIME

Error 106

Meaning: float function not allowed

Reason: R & D routine only

Action: change Master board
|
use SERIALNUMER
|
use SET DATE/TIME

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Error 107

Meaning	Controller not connected
Reason:	no connection between controller and Master board
Action:	check cable connection BU 20 Control board cable o.k. use CHECK OPTOMECH. UNIT FAIL PASS change Control board instrument o.k. enter EEPROM settings use INPUT-CONTROLLER-DATA (values labeled on Optomechanical unit) use CONTROL-INIT FAIL PASS change Master board instrument o.k. use SERIALNUMER use SET DATE/TIME

Error 108

Meaning:	Display stack full
Reason:	R & D routine only
Action:	change Master board use SERIALNUMER use SET DATE/TIME

Error 109

Meaning:	underflow display stack
Reason:	R & D routine only
Action:	change Master board use SERIALNUMER use SET DATE/TIME

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Error 114

Meaning: checksum TSC-RAM
Reason: CRC error RAM Real Time Clock
Action: use RESET-TSC (set counter 0)
|
switch instrument OFF / ON
|
wait until instrument is "READY"

Error 115

Meaning: illegal address executed
Reason: R & D Routine only
Action: change Master board
|
use SERIALNUMER
|
use SET DATE/TIME

Error 116

Meaning: checksum code space
Reason: CRC EPROM failure in program memory
Action: switch instrument OFF / ON
|
change EPROM master (from the bottom side of the instrument)
|
switch instrument ON
|
┌── PASS ──┐
| instrument o.k. |
└── FAIL ──┘
| change Master board
| use SERIALNUMER
| use SET DATE/TIME

8. Trouble Shooting

Error 117

Meaning: checksum data space

Reason: CRC EPROM failure data memory EPROM master

Action:

- switch instrument OFF / ON
- change EPROM master (from the bottom side of the instrument)
- switch instrument ON
- PASS
 - instrument o.k.
- FAIL
 - change Master board
 - use SERIALNUMER
 - use SET DATE/TIME

Error 118

Meaning: system failure

Reason: failure number not in internal table

Action:

- update EPROM master (from the bottom side of the instrument)
- switch instrument ON
- PASS
 - instrument o.k.
- FAIL
 - change Master board
 - use SERIALNUMER
 - use SET DATE/TIME

8. Trouble Shooting

Error 119

Meaning:	parameter table full
Reason:	more than forty parameters stored in memory
Action	use EE-INIT (set default values for all master data) switch instrument OFF / ON ├── PASS instrument o.k. └── FAIL use PROTOCOL use UPLOAD CONTROLLER-DATA change Control board enter EEPROM settings use INPUT CONTROLLER-DATA (values labeled on Optomechanicalunit) or use DOWNLOAD CONTROLLER-DATA

Error 120

Meaning:	wrong software version
Reason:	Software master and Control board not compatible
Action:	update EPROM master (from the bottom side of the instrument)

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Error 121

Meaning: invalid controller data

Reason: wrong data from controller

Action: use PROTOCOL
|
change Control board
|
enter EEPROM settings
|
use INPUT CONTROLLER-DATA
(values labeled on Optomechanical unit)

Error 122

Meaning: wrong calibration data

Reason: (R & D routine only)

Action: use PROTOCOL
|
change Control board
|
enter EEPROM settings
|
use INPUT CONTROLLER-DATA
(values labeled on Optomechanical unit)

Error 200

Meaning: motor overload, no 12V

Reason: below minimum speed for more than 13.5 sec. e.g. motor blocked, dirt

Action: check connections (Control board / Motor)
|
is motor blocked?
|-----|
YES NO
| |
unlock motor change Optomechanical unit
| |
use CHECK WHITE-SDTRIP CALIBRATION and
OPTOMECH UNIT CHECK-STRIP REMISSION
|
lock motor

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Error 201

Meaning: motor bad adjust

Reason: positions out of range

Action: enter EEPROM settings use INPUT CONTROLLER-DATA (values labeled on Optomechanical unit)
|
if no values available change Optomechanical unit
|
use CHECK OPTOMECH. UNIT
|
use CHECK-STRIP REMISSION an WHITE-STRIP CALIBRATION

Error 202

Meaning: motor, bad position

Reason: memory reset not followed by initialization

Action: use CHECK OPTOMECH. UNIT

Error 203

Meaning: motor, no adjust

Reason: positions no adjusted

Action: use PROTOCOL
|
enter EEPROM settings use INPUT CONTROLLER-DATA (values labeled on Optomechanical unit)
|
if no values available change Optomechanical unit
|
use CHECK OPTOMECH. UNIT
|
use CHECK-STRIP REMISSION an WHITE-STRIP CALIBRATION

8. Trouble Shooting

Error 204

Meaning	motor comparator
Reason:	during install speed control detects movement in stand still position
Action:	<p>use PROTOCOL</p> <p> </p> <p>enter EEPROM settings use INPUT CONTROLLER-DATA (values labeled on Optomechanical unit)</p> <p> </p> <p>if no values available change Optomechanical unit</p> <p> </p> <p>use CHECK OPTOMECH. UNIT</p> <p>├── PASS</p> <p>│ </p> <p>│ instrument o.k.</p> <p>└── FAIL</p> <p> </p> <p> change Optomechanical unit</p> <p> </p> <p> use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION</p>

8. Trouble Shooting

Error 205

Meaning: motor adjust, bad values

Reason: position values out of range

Action: use PROTOCOL
|
enter EEPROM settings use INPUT CONTROLLER-DATA (values labeled on Optomechanical unit)
|
if no values available change Optomechanical unit
|
use CHECK OPTOMECH. UNIT
|
use CHECK-STRIP REMISSION an WHITE-STRIP

Error 300

Meaning: Rem conversion overflow

Reason: integration with more than 131071 counts
(hardware defect: processor, A/D-converter)

Action: use PROTOCOL
|
use UPLOAD CONTROLLER-DATA
|
change Control board
|
enter EEPROM settings use INPUT CONTROLLER-DATA (values labeled on Optomechanical unit) or
|
use DOWNLOAD CONTROLLER-DATA
|
use CHECK OPTOMECH. UNIT
|
┌── PASS ── instrument o.k.
└── FAIL ── change Optomechanical unit
 |
 use CHECK-STRIP REMISSION and
 WHITE-STRIP CALIBRATION

8. Trouble Shooting

Error 302

Meaning:	Rem, Uin too high
Reason:	signal for amplification setting too high, e.g. preamplifier defect, strong lightsource on open instrument
Action:	use PROTOCOL use UPLOAD CONTROLLER-DATA change Control board enter EEPROM settings use INPUT CONTROLLER- DATA (values labeled on Optomechanical unit) or use DOWNLOAD CONTROLLER-DATA use CHECK OPTOMECH. UNIT ----- PASS FAIL instrument o.k. change Optomechanical unit use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION

Error 303

Meaning:	Rem, Uin too low, offset
Reason:	signal for amplification setting too low
Action:	use PROTOCOL use UPLOAD CONTROLLER-DATA change Control board enter EEPROM settings use INPUT CONTROLLER- DATA (values labeled on Optomechanical unit) or use DOWNLOAD CONTROLLER-DATA use CHECK OPTOMECH. UNIT ----- PASS FAIL instrument o.k. change Optomechanical unit use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION

8. Trouble Shooting

Error 305

Meaning: 3rd moment, no adjust

Reason: missing wave length correction valve

Action: use PROTOCOL

enter EEPROM settings use INPUT CONTROLLER-DATA (values labeled on Optomechanical unit)

use CHECK OPTOMECH. UNIT

PASS

instrument o.k.

FAIL

change Optomechanical unit

use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION

Error 306

Meaning: 1st moment, no adjust

Reason: no adjustment

Action: use PROTOCOL

enter EEPROM settings use INPUT CONTROLLER-DATA (values labeled on Optomechanical unit)

use CHECK OPTOMECH. UNIT

PASS

instrument o.k.

FAIL

change Optomechanical unit

use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION

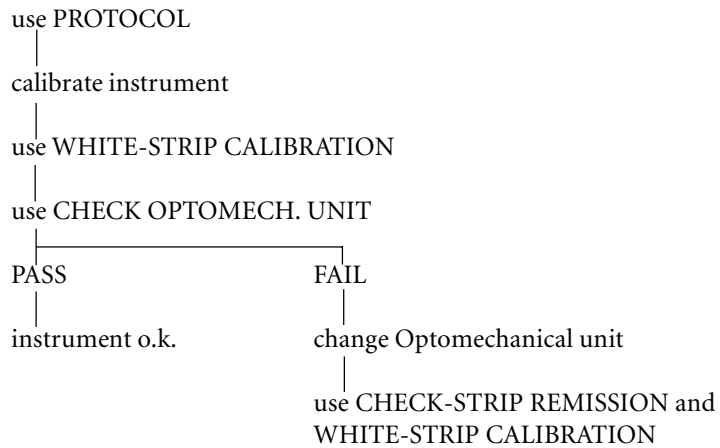
8. Trouble Shooting

Error 307

Meaning: Rem, no adjust red

Reason: no red calibration

Action:



8. Trouble Shooting

Error 308

Meaning: Rem, no adjust green

Reason: no green calibration

Action:

```
graph TD
    A[use PROTOCOL] --> B[calibrate instrument]
    B --> C[use WHITE-STRIP CALIBRATION]
    C --> D[use CHECK OPTOMECH. UNIT]
    D --> E[PASS]
    D --> F[FAIL]
    E --> G[instrument o.k.]
    F --> H[change Optomechanical unit]
    H --> I[use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION]
```

Error 309

Meaning: Rem, no adjust infra

Reason: no infra red calibration

Action:

```
graph TD
    A[use PROTOCOL] --> B[calibrate instrument]
    B --> C[use WHITE-STRIP CALIBRATION]
    C --> D[use CHECK OPTOMECH. UNIT]
    D --> E[PASS]
    D --> F[FAIL]
    E --> G[instrument o.k.]
    F --> H[change Optomechanical unit]
    H --> I[use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION]
```

8. Trouble Shooting

Error 310

Meaning: current diode red

Reason: current LED out of range

Action: check connections

use CHECK OPTOMECH. UNIT

PASS

instrument o.k.

FAIL

use PROTOCOL

use UPLOAD CONTROLLER-DATA

change Control board

enter EEPROM settings use INPUT CONTROLLER-DATA
(values labeled on Optomechanical unit) or

use DOWNLOAD CONTROLLER-DATA

use CHECK OPTOMECH. UNIT

PASS

instrument o.k.

FAIL

change Optomechanical unit

use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

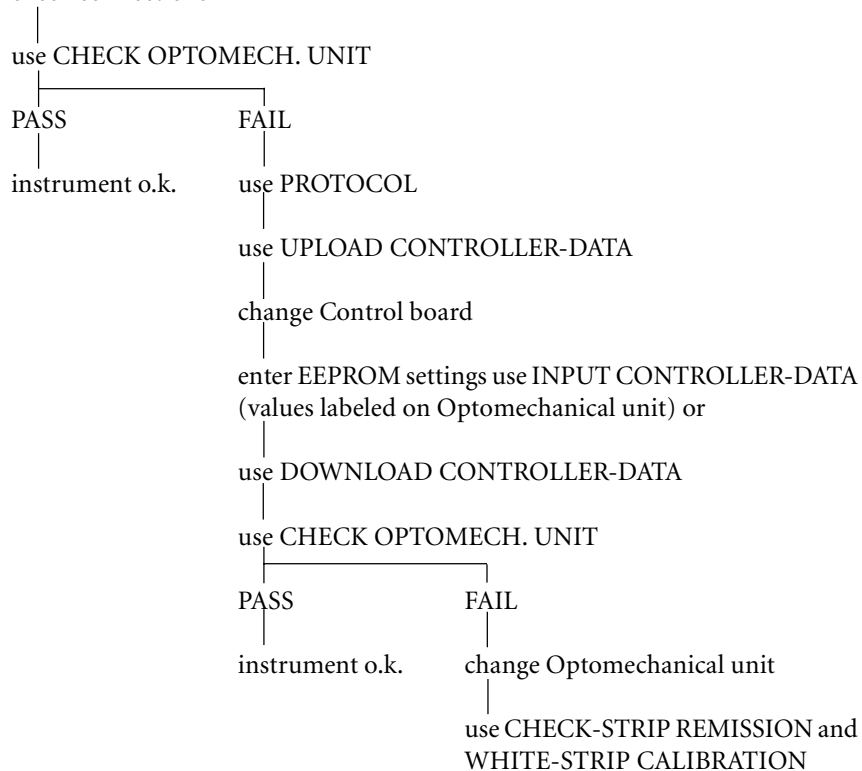
8. Trouble Shooting

Error 311

Meaning: current diode infra

Reason: current LED out of range

Action: check connections



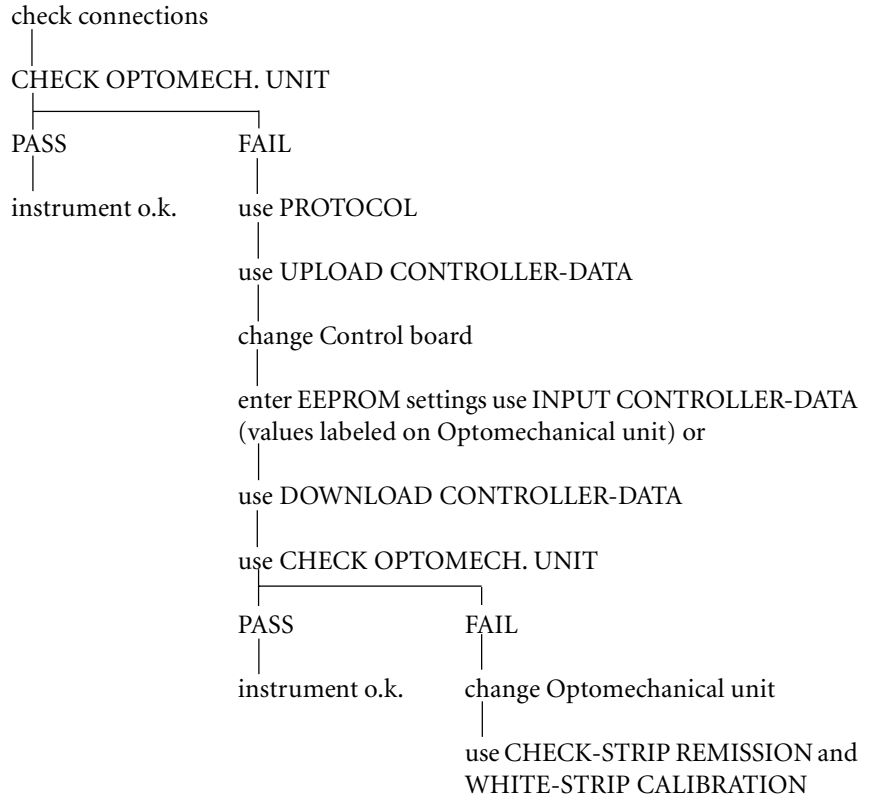
8. Trouble Shooting

Error 312

Meaning: current diode green

Reason: current red out of range

Action:



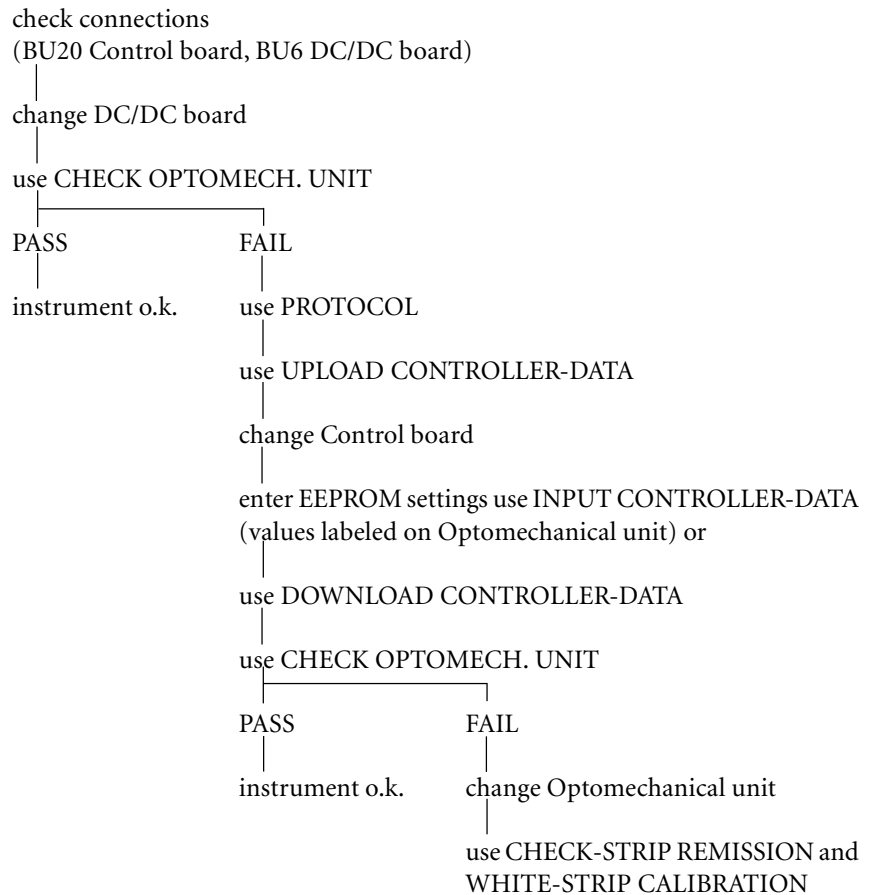
8. Trouble Shooting

Error 313

Meaning: main synchronization (missing)

Reason: DC/DC board defective, Control board defective

Action:



8. Trouble Shooting

Error 314

Meaning: main frequency too high

Reason: DC/DC board defective, Control board defective,
main frequency too high

Action: check main frequency

change DC/DC board

use CHECK OPTOMECH. UNIT

PASS

instrument o.k.

FAIL

use PROTOCOL

use UPLOAD CONTROLLER-DATA

change Control board

enter EEPROM settings use INPUT CONTROLLER-DATA
(values labeled on Optomechanical unit) or

use DOWNLOAD CONTROLLER-DATA

use CHECK OPTOMECH. UNIT

PASS

instrument o.k.

FAIL

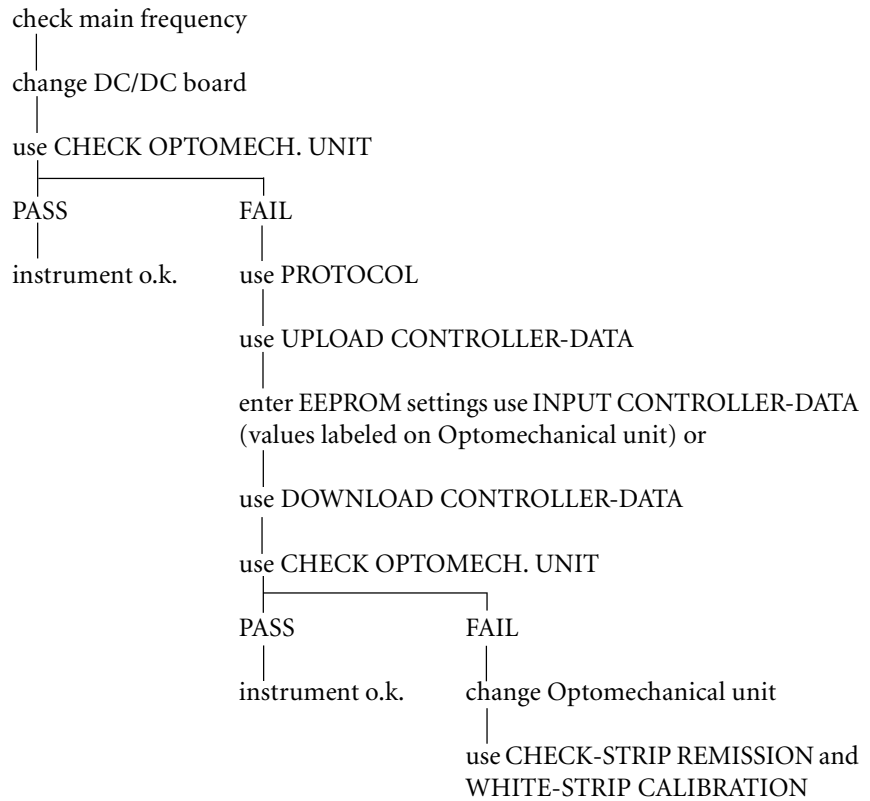
change Optomechanical unit

use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

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Error 315

Meaning: main frequency too low
Reason: DC/DC board defective, Control board defective
Action:



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Error 401

Meaning: shutter not open

Reason: no open position detected (Hardware defect)

Action:

- check connections
 - use CHECK OPTOMECH. UNIT
 - PASS
 - instrument o.k.
 - FAIL
 - use PROTOCOL
 - use UPLOAD CONTROLLER-DATA
 - change Control board
 - enter EEPROM settings use INPUT CONTROLLER-DATA (values labeled on Optomechanical unit) or
 - use DOWNLOAD CONTROLLER-DATA
 - use CHECK OPTOMECH. UNIT
 - PASS
 - instrument o.k.
 - FAIL
 - change Optomechanical unit
 - use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION

Error 402

Meaning: shutter tol., no adjust

Reason: no tolerance range for shutter remission adjusted (R & D routine only)

Action:

- change Optomechanical unit
 - use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION

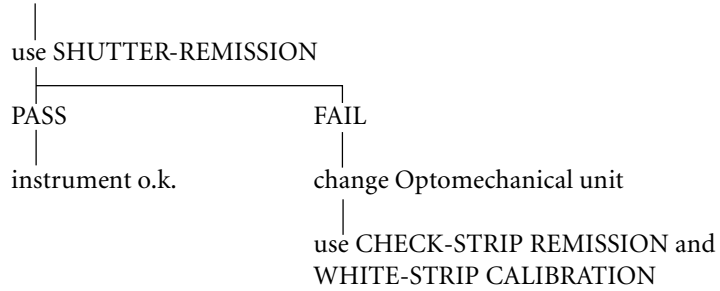
8. Trouble Shooting

Error 403

Meaning: shutter rem., no adjust

Reason: no shutter remission value in memory

Action: repeat shutter remission adjustment use SHUTTER-REMISSION



8. Trouble Shooting

Error 404

Meaning: shutter, bad remission

Reason: bad shutter remission indicates also dirt in sphere

Action: clean Upper heater from inside (see Service Manual)

use SHUTTER OPEN/CLOSE

use SHUTTER-REMISSION

PASS FAIL

instrument o.k. use WHITE-STRIP CALIBRATION

change Optomechanical unit

Error 405

Meaning: shutter not allowed

Reason: no shutter movement allowed between inserting and measuring position

Action: move transporter to allowed position

use CHECK OPTOMECH. UNIT

PASS FAIL

instrument o.k. change Optomechanical unit

use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION

Error 406

Meaning: shutter, LS bad signal

Reason: signal difference between shutter open and shutter close too small ($< 1V$) (adjustment problem possible)

Action: use SHUTTER OPEN/CLOSE

use CHECK OPTOMECH. UNIT

PASS FAIL

instrument o.k. change Optomechanical unit

use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION

8. Trouble Shooting

Error 602

Meaning: WKAL, not in use

Reason: no adjust values available

Action: enter EEPROM settings use INPUT CONTROLLER-DATA (values labeled on Optomechanical unit)

use CHECK OPTOMECH. UNIT

PASS | FAIL

instrument o.k. | change Optomechanical unit

use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION

Error 700

Meaning: heater top, timeout

Reason: internal communication problem with Upper heater

Action: check connections

use CHECK OPTOMECH. UNIT

PASS | FAIL

instrument o.k. | change Optomechanical unit

use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION

Error 701

Meaning: heater top, SYN

Reason: internal communication problem with Upper heater

Action: change Optomechanical unit

use CHECK OPTOMECH. UNIT

use CHECK-STRIP REMISSION and WHITE-STRIP CALIBRATION

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Error 702

Meaning: heater top, ACK

Reason: internal communication problem with Upper heater

Action: change Optomechanical unit
|
use CHECK OPTOMECH. UNIT
|
use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

Error 703

Meaning: heater top, ENQ

Reason: internal communication problem with Upper heater

Action: change Optomechanical unit
|
use CHECK OPTOMECH. UNIT
|
use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

Error 704

Meaning: heater top, CRC, adjust

Reason: after heating correcting data transmission wrong
checksum in Control board memory

Action: change Optomechanical unit
|
use CHECK OPTOMECH. UNIT
|
use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

Error 705

Meaning: heater top, checksum

Reason: wrong checksum EEPROM Upper heater

Action: change Optomechanical unit
|
use CHECK OPTOMECH. UNIT
|
use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

8. Trouble Shooting

Error 710

Meaning: heater top, function

Reason: performed selftest failed (see Error 707)

Action: switch instrument OFF/ON
|
change Optomechanical unit
|
use CHECK OPTOMECH. UNIT
|
use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

Error 800

Meaning: heater bottom, timeout

Reason: internal communication problem with Lower heater

Action: check connections
|
use CHECK OPTOMECH. UNIT
|-----|
PASS FAIL
| |
instrument o.k. change Optomechanical unit
|
use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

Error 801

Meaning: heater bottom, SYN

Reason: internal communication problem with Lower heater

Action: change Optomechanical unit
|
use CHECK OPTOMECH. UNIT
|
use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

8. Trouble Shooting

Error 802

Meaning: heater bottom, ACK

Reason: internal communication problem with Lower heater

Action: change Optomechanical unit
|
use CHECK OPTOMECH. UNIT
|
use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

Error 803

Meaning: heater bottom, ENQ

Reason: internal communication problem with Lower heater

Action: change Optomechanical unit
|
use CHECK OPTOMECH. UNIT
|
use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

Error 804

Meaning: heater bottom, CRC, adjust

Reason: after heating correcting data transm. wrong checksum in Control board

Action: change Optomechanical unit
|
use CHECK OPTOMECH. UNIT
|
use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

Error 805

Meaning: heater bottom, checksum

Reason: wrong checksum EEPROM Lower heater

Action: change Optomechanical unit
|
use CHECK OPTOMECH. UNIT
|
use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

8. Trouble Shooting

Error 806

Meaning: heater bottom, bad adjust

Reason: heating not calibrated (R & D routine only)

Action: change Optomechanical unit
|
use CHECK OPTOMECH. UNIT
|
use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

Error 807

Meaning: heater bottom, selftest

Reason: selftest routine: sensor, heat. element, PWM, RAM, EEPROM failed

Action: change Optomechanical unit
|
use CHECK OPTOMECH. UNIT
|
use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

Error 808

Meaning: heater bottom, initializing

Reason: EMI problems

Action: switch instrument OFF/ON
|
use CHECK OPTOMECH. UNIT
|
├── PASS ──┬── instrument o.k.
└── FAIL ───┘ change Optomechanical unit
 |
 use CHECK-STRIP REMISSION and
 WHITE-STRIP CALIBRATION

8. Trouble Shooting

Error 809

Meaning: heater bottom, function

Reason: performed selftest failed (see Error 807)

Action: switch instrument OFF/ON
|
use CHECK OPTOMECH. UNIT
|
┌─── PASS ───┐
| instrument o.k. |
└─── FAIL ───┘
|
change Optomechanical unit
|
use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

Error 900

Meaning: no -5V (-5V incorrect)

Reason: during initialization no internal -5V on Control board

Action: use PROTOCOL
|
use UPLOAD CONTROLLER-DATA
|
change Control board
|
enter EEPROM settings use INPUT CONTROLLER-
DATA (values labeled on Optomechanical unit) or
|
use DOWNLOAD CONTROLLER-DATA
|
use CHECK OPTOMECH. UNIT
|
┌─── PASS ───┐
| instrument o.k. |
└─── FAIL ───┘
|
change Optomechanical unit
|
use CHECK-STRIP REMISSION and
WHITE-STRIP CALIBRATION

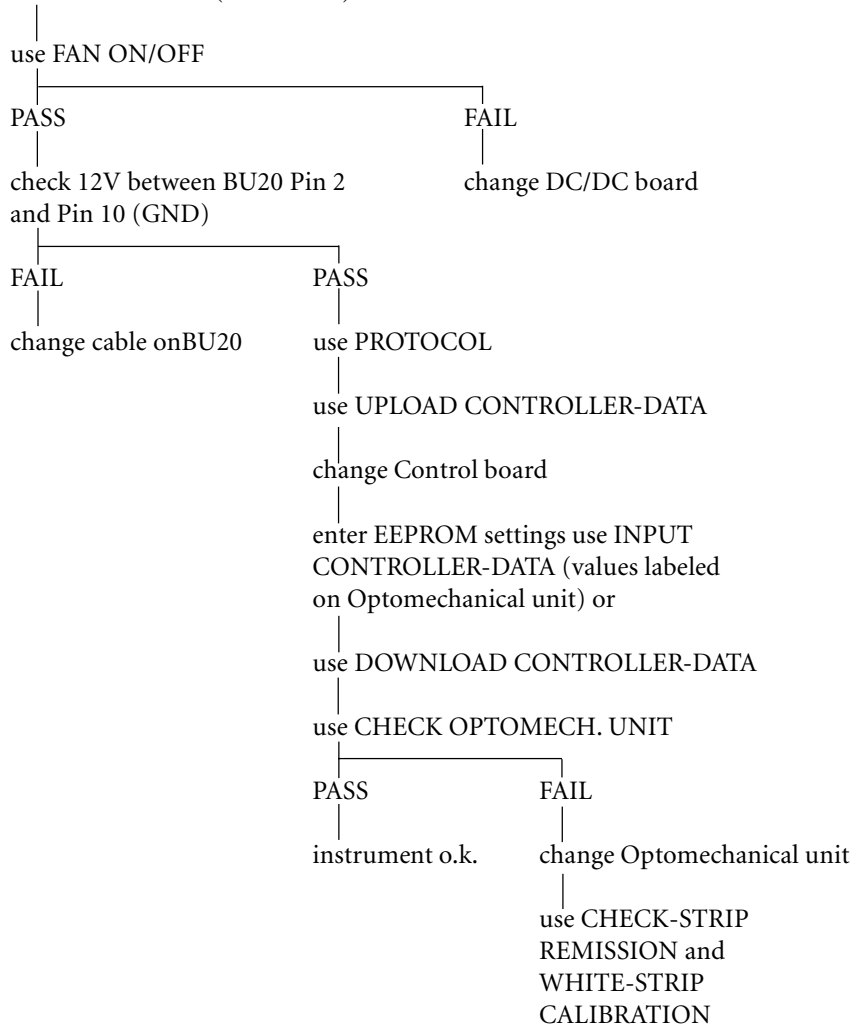
8. Trouble Shooting

Error 901

Meaning: no +12V

Reason: +12V not in the range of +/- 10%

Action: check connections (BU20/BU6)



Error 902

Meaning: series #, no adjust

Reason: serial No of Optomech. unit not in EEPROM

Action: enter serialnumber use INPUT CONTROLLER_DATA

