Left page

Updating → Enter → Access w-out PW / Access Serv / Access OEM / Access LS → ParamBackup → Backup Info → Date / TimeOfDay / BU included? / AZL included? / LC included? / ACT1 included? / ACT2 included? / ACT3 included? / ACT4 included? / VSD included?

PW-Login → Enter → Access w-out PW / Access Serv / Access OEM / Access LS

SafetyCheckFunct → Enter → Loss Flame Test ⟹ / SLT Test ⟹

The safety check function should only be used by authorized engineers.

Required information for service purposes

Location: _____

Burner data: _____

Burner Management System LMV5x

	ASN	Production date	SW version
Burner control			
Load controller			
AZL			
Air actuator			
Gas actuator			
Oil actuator			
Aux. actuator			

Lockout history

No.	Date	Time	Code	Diag.-Code	Fault-Phase	Start-No.	Load	Fuel	Discription
1									
2									
3									
4									
5									
6									
7									
8									
9									

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Right page

User Guide

User level AZL
(LMV51...)

Legend for User Guide and AZL

ESC — Previous level

< SELECT > — Cursor ↓ / Cursor ↑

Enter — Next level

⟹ Alteration level
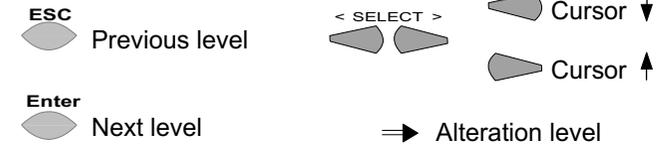
For language option, select:

Params&Display ⟹ Access w-out PW ⟹ AZL ⟹ Language

Display

Display Normal Operation

```
SET POINT     80° C
ACT VALUE     78° C
LOAD          84.0 %
FLAME         96.8 %
```

ESC — **Press ESC to get into the main menu**

```
OPERATIONAL STAT
OPERATION
MANUAL OPERATION
PARAMS & DISPLAY
UPDATING
PW-LOGIN
```

Depending on the burner sequence, other displays will be shown.

Display Lockout or Fault

```
LOCKOUT
>>DIAGNOSIS TEXT<<
```

ESC

```
WOULD YOU LIKE
TO RESET THE
SYSTEM W ENTER?
```

When display changes, press Enter to maintain the display.

Menu

Operational Stat → Enter
- Normal Operation — Standard display information
- Status / Reset — Status or reset function
- Fault History — Last 21 faults
- Lockout History — Last 9 lockouts ❶
- Alarm act/deact — Act./Deact. of horn in the event of an alarm
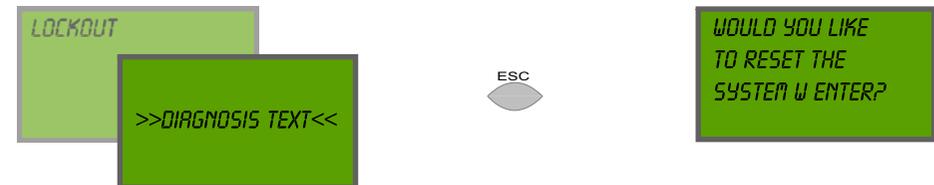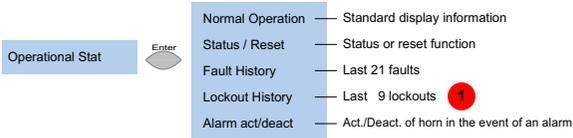
❶ Lockout history example

```
8     16.10.01    09:36
C:30    0:00    P:40
START NO.         70
LOAD:   20       GAS
```

- Eighth last fault: 8
- Fault date: 16.10.01
- Fault time: 09:36
- Diagnosis code / Fault code: C:30   0:00   P:40 — Phase section
- Start number: START NO.   70
- Load in %: LOAD: 20 — GAS Current type of fuel
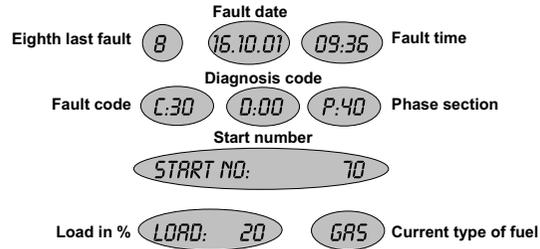
When display changes, press [Enter] to maintain the display.

< SELECT >   Select fault history

Operation → Enter
- Boiler Setpoint
- Fuel
- Date/Time Of Day
- Hours Run
- Start Counter
- Fuel Meter
- Lockout Counter
- Burner ID
- Optg Mode Select

Setpoint W1 / Setpoint W2

Current Fuel / Fuel Select

Display Clock / Set Clock

Date / Time Of Day / Weekday

Date / Time Of Day / Weekday

Gas Firing / Oil Stage 1/Mod / Oil Stage 2 / Oil Stage 3 / Total Hours Reset / Total Hours / System On Power

Gas start Count / Oil start Count / Total start Count R / Total start Count

Curr Flow Rate / Volume Gas / Volume Oil / Volume Gas R / Volume Oil R / Reset Date Gas / Reset Date Oil

Interface PC / Gateway DDCon / Gateway DDCoff / Type of Gateway

Manual Operation → Enter
- Set Load
- Autom/Manual/Off

Param&Display → Enter
- Access w-out PW
- Access Serv
- Access OEM
- Access LS

- Burner Control
- Ratio Control
- Load Controller
- AZL
- Actuators
- VSD Module
- System Config
- Hours Run
- Start Counter
- Fuel Meter

Configuration / Product ID / SW Version

ConfigFlameDet → FlameSignal

ASN / ProductionDate / SerialNumber / ParamSet Code / ParamSet Vers

Autom/Manual/Off

Controller Param / Configuration / Adaption / SW Version

ContrlParamList / MinActuatorStep / SW_FilterTmeCon / Setpoint W1 / Setpoint W2 / SD_ModOn / SD_ModOff / SD_Stage1On / SD_Stage1Off / SD_Stage2Off / SD_Stage3Off / ThreshStage2On / ThreshStage3On

StandardParam / P- Part (xp) / I- Part (Tn) / D- Part (Tv)

LC_OptgMode

StartAdaption / AdaptionLoad

Times / Language / Date Format / Physical Units / eBus / Modbus / Display Contrast / Product ID / SW Version

Sum/Winter Time / Time EU/US

UnitTemperature / UnitPressure

Address / SendCycleBU

Address / Baudrate / Parity / Timeout / Local / Remote / Remote Mode / W3

ASN / ProductionDate / SerialNumber / ParamSet Code / ParamSet Vers

Product ID / SW Version

Process Data / Product ID / SW Version

LR_OptgMode

1 AirActuator / 2 GasActuat(Oil) / 3 OilActuator / 4 AuxActuator

ASN / ProductionDate / SerialNumber / ParamSet Code / ParamSet Vers

1 AirActuator / 2 GasActuat(Oil) / 3 OilActuator / 4 AuxActuator

Max Stat Dev / Max Dyn Dev / Num Dev >0,3 % / Num Dev >0,5 % / Absolute Speed

GasFiring / OilStage1/Mod / OilStage2 / OilStage3 / TotalHoursReset / TotalHours / SystemOnPower / Reset

ParamSet Code / ParamSet Vers

GasStartCount / OilStartCount / TotalStartCountR / TotalStartCount / Reset

GasFiring / OilStage1/Mod / OilStage2 / OilStage3 / TotalHoursReset

Curr Flow Rate / Volume Gas / Volume Oil / Volume Gas R / Volume Oil R / Reset DateGas / Reset DateOil

GasStartCount / OilStartCount / TotalStartCountR