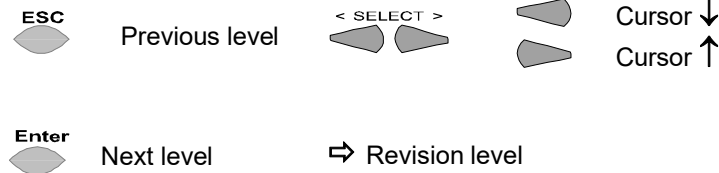


### Legend of Operating Instruction and AZL5...

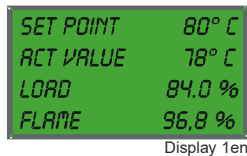


For language option, select:

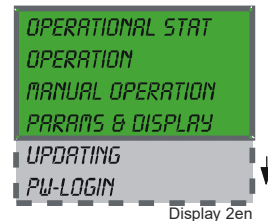
Param&Display ⇒ Access without password ⇒ AZL5 ⇒ Language

## Display

Normal operation

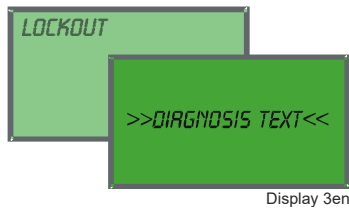


Press ESC, to get into the main menu



Depending on burner sequence.

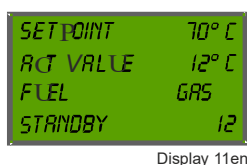
Display of fault or error



For fixing the display, press .

## Extended display LMV52...

Overview positions of actuator and O2 value

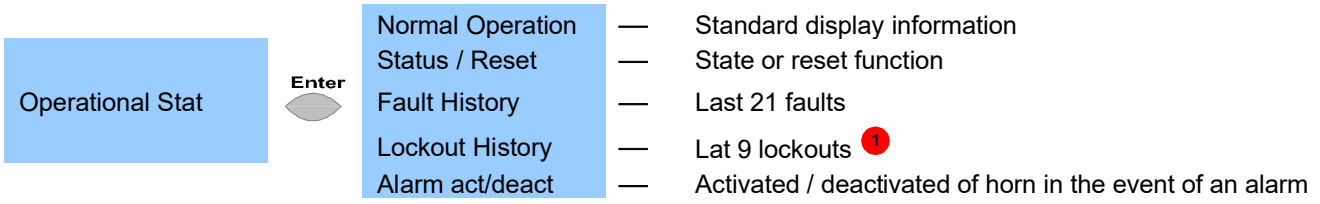


Press ENTER, to switch between this both displays

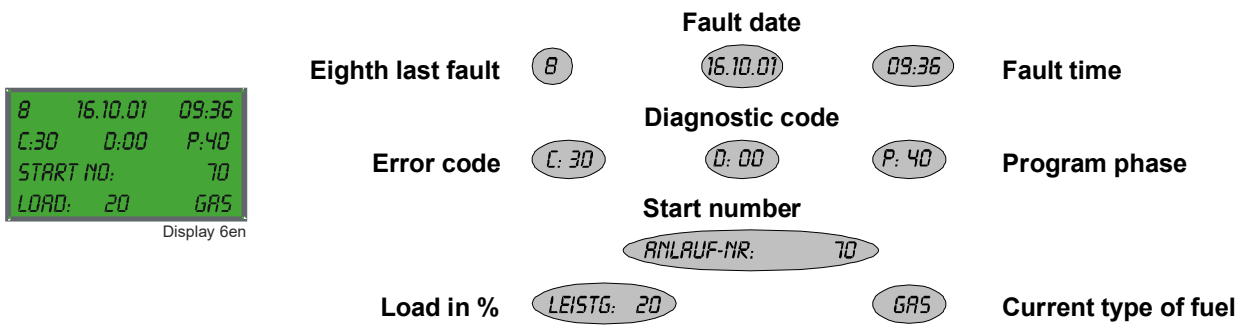


Press ESC, to get into the main menu

# Menu



## 1 Example: Error history



For fixing the display press 

  **Selection of error history**

Menu level 1	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Menu level 6
<b>OperationalStat</b>					
	NormalOperation				
	Status/Reset				
	FaultHistory				
	LockoutHistory				
	Alarm act/deact				

Menu level 1	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Menu level 6
<b>Operation</b>					
	<b>BoilerSetpoint</b>				
		SetpointW1			
		SetpointW2			
	<b>User Maxload</b>				
		User MaxLoadMod			
		User MaxLoadStg			
	<b>Fuel</b>				
		CurrentFuel			
		FuelSelect			
	<b>Date/TimeOfDay</b>				
		<b>DisplayClock</b>			
			Date		
			TimeOfDay		
			Weekday		
		<b>SetClock</b>			
			Date		
			TimeOfDay		
			Weekday		
	<b>HoursRun</b>				
		GasFiring			
		OilStage1/Mod			
		OilStage2			
		OilStage3			
		TotalHoursReset			
		TotalHours			
		SystemOnPower			
	<b>StartCounter</b>				
		GasStartCount			
		OilStartCount			
		TotalStartCountR			
		TotalStartCount			
	<b>Fuel Meter</b>				
		Curr Flow Rate			
		Volume Gas			
		Volume Oil			
		Volume Gas R			
		Volume Oil R			
		Reset Date Gas			
		Reset Date Oil			
	LockoutCounter				
	<b>O2 Module</b>				
		Current O2 Value			
		O2 Setpoint			
		SupplyAirTemp			
		FlueGasTemp			
		CombEfficiency			
	BurnerID				
	<b>OptgModeSelect</b>				
		InterfacePC			
		GatewayBASon			
		GatewayBASoff			
		Gateway status			
		Type of Gateway			
	O2Ctrl activate				

Menu level 1	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Menu level 6
<b>ManualOperation</b>					
	SetLoad				
	Autom/Manual/Off				

Menu level 1	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Menu level 6
<b>Params &amp; Display</b>					
	<b>BurnerControl</b>				
		<b>Configuration</b>			
			<b>ConfigFlameDet</b>		
		<b>ProductID</b>			
			ASN		
			ProductionDate		
			SerialNumber		
			ParamSet Code		
			ParamSet Vers		
		SW Version			
	<b>RatioControl</b>				
		Autom/Manual/Off			
	<b>O2Contr/Alarm</b>				
		<b>GasSettings</b>			
			<b>Control Param</b>		
				<b>PI</b>	
					Tau Low-Fire
					Tau High-Fire
		<b>Startmode</b>			
			Adjust. Temp O2		
		<b>OilSettings</b>			
			<b>Control Param</b>		
				<b>PI</b>	
					Tau Low-Fire
					Tau High-Fire
			<b>Startmode</b>		
				Adjust. Temp O2	
		<b>Process Data</b>			
			CombEfficiency		
			ManVar O2 Ctrl		
			State O2 Ctrl		
			Air-related Load		
			Diag Reg State		
	<b>LoadController</b>				
		<b>ControllerParam</b>			
			<b>ContrIParamList</b>		
				StandardParam	
				P-Part (Xp)	
				I-Part (Tn)	
				D-Part (Tv)	
			MinActuatorStep		
			SW_FilterTmeCon		
			SetpointW1		
			SetpointW2		
			SD_ModOn		
			SD_ModOff		
			SD_Stage1On		
			SD_Stage1Off		
			SD_Stage2Off		
			SD_Stage3Off		
			ThreshStage2On		
			ThreshStage3On		
		<b>ColdStart</b>			
			Temp ColdStart		

Menu level 1	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Menu level 6
		<b>Configuration</b>			
			LC_OptgMode		
		<b>Adaption</b>			
			StartAdaption		
			AdaptionLoad		
		SW Version			
	<b>AZL</b>				
		<b>Times</b>			
			Sum/WinterTime		
			Time EU/US		
		Language			
		DateFormat			
		PhysicalUnits			
		<b>eBUS</b>			
			Address		
			SendCycleBU		
		<b>Modbus</b>			
			Address		
			Baudrate		
			Parity		
			Timeout		
			Lokal / Remote		
			Remote Mode		
			W3		
		Display Contrast			
		<b>ProductID</b>			
			ASN		
			ProductionDate		
			SerialNumber		
			ParamSet Code		
			ParamSet Vers		
		SW Version			
	<b>Actuators</b>				
		<b>ProductID</b>			
			<b>1 AirActuator</b>		
				ASN	
				ProductionDate	
				SerialNumber	
				ParamSet Code	
				ParamSet Vers	
			<b>2 GasActuat(Oil)</b>		
				ASN	
				ProductionDate	
				SerialNumber	
				ParamSet Code	
				ParamSet Vers	
			<b>3 OilActuator</b>		
				ASN	
				ProductionDate	
				SerialNumber	
				ParamSet Code	
				ParamSet Vers	
			<b>4 AuxActuator</b>		
				ASN	
				ProductionDate	

Menu level 1	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Menu level 6
				SerialNumber	
				ParamSet Code	
				ParamSet Vers	
			<b>5 AuxActuator2</b>		
				ASN	
				ProductionDate	
				SerialNumber	
				ParamSet Code	
				ParamSet Vers	
			<b>6 AuxActuator3</b>		
				ASN	
				ProductionDate	
				SerialNumber	
				ParamSet Code	
				ParamSet Vers	
		<b>SW Version</b>			
			1 AirActuator		
			2 GasActuat(Oil)		
			3 OilActuator		
			4 AuxActuator		
			5 AuxActuator2		
			6 AuxActuator3		
	<b>VSD Module</b>				
		<b>Configuration</b>			
			<b>Speed</b>		
				AbsoluteSpeed	
		<b>Process Data</b>			
			Max Stat Dev		
			Max Dyn Dev		
			Num Dev >0.3%		
			Num Dev >0.5%		
			Absolute Speed		
		<b>ProductID</b>			
			ASN		
			ProductionDate		
			SerialNumber		
			ParamSet Code		
			ParamSet Vers		
		SW Version			
	<b>O2 Module</b>				
		<b>Process Data</b>			
			Actual O2 Value		
			O2 Setpoint		
			SupplyAirTemp		
			FlueGasTemp		
			CombEfficiency		
			QGO SensorTemp		
			QGO HeatingLoad		
			QGO Resistance		
		<b>ProductID</b>			
			ASN		
			ProductionDate		
			SerialNumber		
			ParamSet Code		
			ParamSet Vers		
		SW Version			

Menu level 1	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Menu level 6
	<b>Flue Gas Recirc.</b>				
		actTmpFGR-sensor			
	<b>SystemConfig</b>				
		LC_OptgMode			
	<b>HoursRun</b>				
		GasFiring			
		OilStage1/Mod			
		OilStage2			
		OilStage3			
		TotalHoursReset			
		TotalHours			
		SystemOnPower			
		<b>Reset</b>			
			GasFiring		
			OilStage1/Mod		
			OilStage2		
			OilStage3		
			TotalHoursReset		
	<b>StartCounter</b>				
		GasStartCount			
		OilStartCount			
		TotalStartCountR			
		TotalStartCount			
		<b>Reset</b>			
			GasStartCount		
			OilStartCount		
			TotalStartCountR		
	<b>Fuel Meter</b>				
		Curr Flow Rate			
		Volume Gas			
		Volume Oil			
		Volume Gas R			
		Volume Oil R			
		Reset DateGas			
		Reset DateOil			

Menu level 1	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Menu level 6
<b>Updating</b>					
	<b>ParamBackup</b>				
		<b>BackupInfo</b>			
			Date		
			TimeOfDay		
			BU included?		
			AZL included?		
			LC included?		
			ACT1 included?		
			ACT2 included?		
			ACT3 included?		
			ACT4 included?		
			ACT5 included?		
			ACT6 included?		
			VSD included?		
			O2 included?		
PW Login					
<b>SafetyCheckFunct</b>					
	SLT Test				
	SLT-Testload Mod				
	SLT-Testload Stg				

**Use of TÜV test function must be carried out by qualified staff!**

---

## Required information of service purpose

Plant: \_\_\_\_\_

Burner data: \_\_\_\_\_

## Burner management system LMV52...

	ASN	Production data	Software version
Burner control			
Load controller			
AZL5...			
Air actuator			
Gas actuator			
Oil actuator			
Auxiliary actuator			
Flame detector			

## Lockout history

No.	Date	Time	Code	Diagnostic code	Error phase	Startup	Load	Fuel	Description of fault
1									
2									
3									
4									
5									
6									
7									
8									
9									