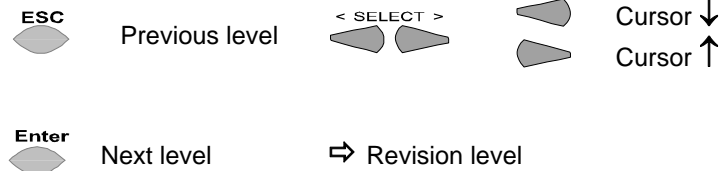


Legend of Operating Instruction and AZL5...

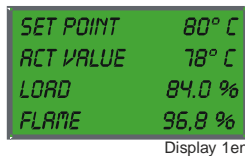


For language option, select:

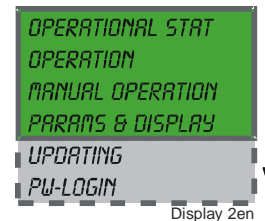
Param&Display ⇒ Access without password ⇒ AZL5 ⇒ Language

Display

Normal operation

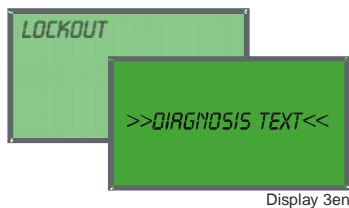


ESC Press ESC, to get into the main menu

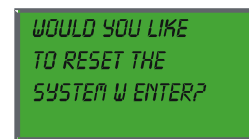


Depending on burner sequence.

Display of fault or error



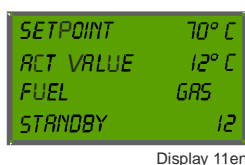
ESC



For fixing the display, press **Enter**.

Extended display LMV52...

Overview positions of actuator and O2 value



Enter

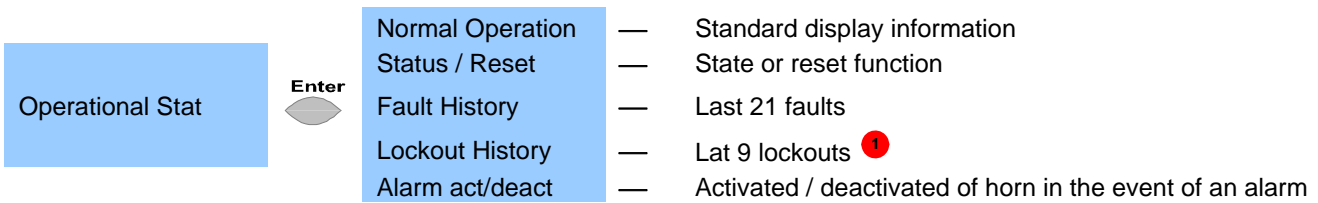
Press ENTER, to switch between this both displays



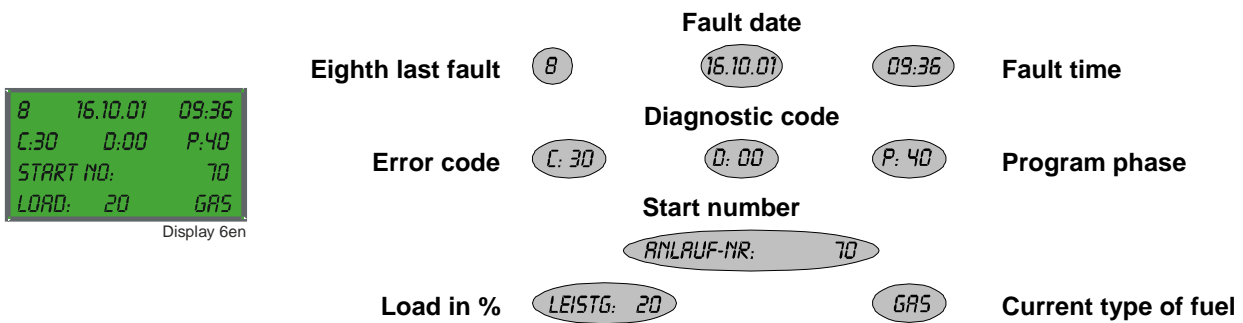
ESC

Press ESC, to get into the main menu

Menu



1 Example: Error history



For fixing the display press 

 **< SELECT >**  **Selection of error history**

Menu level 1	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Menu level 6
OperationalStat					
	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
Operation					
	BoilerSetpoint	SetpointW1			
		SetpointW2			
	User Maxload	User MaxLoadMod			
		User MaxLoadStg			
	Fuel	CurrentFuel			
		FuelSelect			
	Date/TimeOfDay	DisplayClock	Date		
			TimeOfDay		
			Weekday		
		SetClock	Date		
			TimeOfDay		
			Weekday		
	HoursRun				
		GasFiring			
			OilStage1/Mod		
			OilStage2		
			OilStage3		
			TotalHoursReset		
			TotalHours		
			SystemOnPower		
		StartCounter			
			GasStartCount		
			OilStartCount		
			TotalStartCountR		
			TotalStartCount		
		Fuel Meter			
	Curr Flow Rate				
	Volume Gas				
	Volume Oil				
	Volume Gas R				
	Volume Oil R				
	Reset Date Gas				
	Reset Date Oil				
	LockoutCounter				
	O2 Module				
		Current O2 Value			
		O2 Setpoint			
		SupplyAirTemp			
		FlueGasTemp			
		CombEfficiency			
	BurnerID				
	OptgModeSelect				
		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
ManualOperation					
	SetLoad				
	Autom/Manual/Off				

Menu level 1	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Menu level 6	
Params & Display	BurnerControl	Configuration	ConfigFlameDet	FlameSignal	FlameSig QRI_B	
					FlameSig ION	
			ProductID	ASN		
		ProductionDate				
		SerialNumber				
		ParamSet Code				
		ParamSet Vers				
		SW Version				
		RatioControl	Autom/Manual/Off			
	O2Contr/Alarm		GasSettings	Control Param	PI	Tau Low-Fire
		Tau High-Fire				
		Startmode	Adjust. Temp O2			
			OilSettings	Control Param	PI	Tau Low-Fire
	Tau High-Fire					
	Startmode	Adjust. Temp O2				
	Process Data	CombEfficiency				
		ManVar O2 Ctrl				
		State O2 Ctrl				
		Air-related Load				
		Diag Reg State				
	LoadController	ControllerParam	ContrIParamList	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						

Menu level 1	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Menu level 6
			ThreshStage3On		
		ColdStart			
			Temp ColdStart		
		Configuration			
			LC_OptgMode		
		Adaption			
			StartAdaption		
			AdaptionLoad		
		SW Version			
	AZL				
		Times			
			Sum/WinterTime		
			Time EU/US		
		Language			
		DateFormat			
		PhysicalUnits			
		eBUS			
			Address		
			SendCycleBU		
		Modbus			
			Address		
			Baudrate		
			Parity		
			Timeout		
			Lokal / Remote		
			Remote Mode		
			W3		
		Display Contrast			
		ProductID			
			ASN		
			ProductionDate		
			SerialNumber		
			ParamSet Code		
			ParamSet Vers		
		SW Version			
	Actuators				
		ProductID			
			1 AirActuator		
				ASN	
				ProductionDate	
				SerialNumber	
				ParamSet Code	
				ParamSet Vers	
			2 GasActuat(Oil)		
				ASN	
				ProductionDate	
				SerialNumber	
				ParamSet Code	
				ParamSet Vers	
			3 OilActuator		
				ASN	
				ProductionDate	
				SerialNumber	
				ParamSet Code	
				ParamSet Vers	

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

Menu level 1	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Menu level 6
			ParamSet Code		
			ParamSet Vers		
		SW Version			
	Flue Gas Recirc.				
		actTmpFGR-sensor			
	SystemConfig				
		LC_OptgMode			
	HoursRun				
		GasFiring			
		OilStage1/Mod			
		OilStage2			
		OilStage3			
		TotalHoursReset			
		TotalHours			
		SystemOnPower			
		Reset			
			GasFiring		
			OilStage1/Mod		
			OilStage2		
			OilStage3		
			TotalHoursReset		
	StartCounter				
		GasStartCount			
		OilStartCount			
		TotalStartCountR			
		TotalStartCount			
		Reset			
			GasStartCount		
			OilStartCount		
			TotalStartCountR		
	Fuel Meter				
		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
Updating					
	ParamBackup				
		BackupInfo			
			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					
SafetyCheckFunct					
	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			

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									