SIEMENS



AZL2...

Display and operating unit for burner management systems, flame safeguards and burner controls

User Manual

The AZL2... and this User Manual are intended for use by OEMs which integrate the AZL2... in their products!



Caution! This documentation is only valid in conjunction with the AZL2 Data Sheet N7542 and the basic documentation of the relevant burner management system, flame safeguard or burner control!

Building Technologies Division

Supplementary documentation

Product type	Type of documentation	Documentation number
AZL2	Environmental Product Declaration	E7542
LFS1	User documentation	A7782
	Data Sheet	N7782
LME39	Data Sheet	N7106
	Basic Documentation	P7106
LME7	Data Sheet	N7105
	Basic Documentation	P7105
LMO39	Data Sheet	N7154
	Basic Documentation	P7154
LMV26	Data Sheet	N7547
	Basic Documentation	P7547
LMV27	Data Sheet	N7541
	Basic Documentation	P7541
LMV36	Data Sheet	N7544
	Basic Documentation	P7544
LMV37	Data Sheet	N7546
	Basic Documentation	P7546

Operation via AZL2... Description of the unit/display and buttons

Function and operation of versions AZL21... and AZL23... are identical.



Figure: Description of the unit/display and buttons

Button	Function					
\bigcirc	Button F					
	- For adjusting the fuel actuator					
F	$(\text{keep} \neq \text{depressed and adjust the value by pressing} (r +)$					
\frown	Button A					
	- For adjusting the air actuator					
Α	(keep \land depressed and adjust the value pressing \bigcirc or \rightarrow)					
-VSD-	$\Lambda_{\rm -button}$ and E-button: Parameterization function					
	- For changing to parameter setting mode P					
F A	(press simultaneously F and A plus - or +)					
	Info and Enter button					
	- For navigating in info or service mode					
	* Selection (symbol flashing) (press button for <1 s)					
	* For changing to a lower menu level (press button for 13 s)					
	* For changing to a higher menu level (press button for 38 s)					
Stree et	* For changing the operating mode (press button for >8 s)					
L/reset	- Enter in parameter setting mode					
	- Reset in the event of fault					
	- One menu level down					
	- button					
	- For decreasing the value					
-	For navigating during curve adjustments in info or service mode					
	+ button					
	- For increasing the value					
+	- For navigating during curve adjustments in info or service mode					
-ESC-	+ and - button: Escape function					
	(nress and t simultaneously)					
	- No adoption of value					
- +	- One menu level un					

1.2 Meaning of symbols on the display



1.3 Display of info level



Parameter no.	LFS	LME7	LME39	LMV	Meaning	
			LMO39			
Info level						
167				•	Fuel volume resettable (m ³ , l, ft ³ , gal)	
162				•	Operating hours resettable	
164	•	•	•	•	Startups resettable	
163				•	Device operating hours with power applied	
166	•	•	•	•	Total number of startups	
113	•	•	•	•	Burner identification	
107				•	Software version	
108				•	Software variant	
102	•	•	•	•	Identification date	
103	•	•	•	•	Identification number	
104				•	Parameter set preassignment: Customer code	
105				•	Parameter set preassignment: Version	
123		•			Minimum power adjustment	
140		•			Mode display AZL2	
143				•	Reserved	
170.00		•			Relay contact K12 switching cycles	
	•				Flame relay (FR) switching cycles	
170.01		•			Relay contact K11 switching cycles	
	•				Auxiliary relay (HR) switching cycles	
170.02		•			Relay contact K2 switching cycles	
170.03		•			Relay contact K1 switching cycles	
171		•			Maximum relay switching cycles	
	•				Warning threshold: 1 million switching cycles	
182		•			Flame sensitivity	

Table: Display of info level

1.4 Example: Burner identification



The burner identification can only be set with PC tool ACS410 at the parameter level!



To the next parameter

parameter.

Service level Display of service level

	Press for >3 s until SEr appears.
$\nabla \bigtriangleup V h min s \% \notin$	When releasing Mreset, you are on the service level.

Parameter no.	LFS	LME7	LME39 LMO39	LMV	Meaning	
Service level						
951	•	•			Mains voltage	
954	•	•		•	Flame intensity	
			•		Flame current	
960				•	Actual flow rate (fuel throughput in m ³ /h, l/h, ft ³ /h,	
					gal/h)	
121				•	Manual output	
920		•			Current PWM signal fan	
	•				Flame intensity::	
922				•	Incremental position of the actuators	
936		•		•	Normalized speed	
161				•	Number of faults	
701	•		•	•	Error history: 701-725.01.Code	
725						

Table: Display of service level

2.2 Display of service values (example)

2.2.1 Number of faults



2.2.2 Error history

See chapter *Parameters with index, with no direct display / Based on the example for parameter 701 Error history* in the relevant documentation of the burner management system, the flame safeguard or the burner control!

Note

 $\langle \mathcal{F} \rangle$

Can be deleted for service, see chapter *Parameter list* in the relevant documentation of the burner management system, the flame safeguard or the burner control!

2.2.3 Intensity of flame (LFS, LME7, LMV only)





Note See also chapter *Flame intensity with curve setting* in the relevant documentation of the burner management system, the flame safeguard or the burner control!

2.2.4 Flame current (LME3, LMO3 only)



2.3 Parameters with index, with no direct display

2.3.1 Based on the example for LMV: parameter 701 error

See chapter *Error code list*.



3 Error code list

Note!

For details on error codes, see chapter *Error code list* in the relevant documentation of the burner management system, the flame safeguard or the burner control!

Error code	Diagnostic code	Meaning for the burner management system, the flame safeguard or the burner control	Recommended measures
no Co	mm	No communication between the burner management, the flame safeguard or the burner control and AZL2.	Check wiring for open-circuit / loose contact
Loc:	67 Manual locking	Manual locking	

Table: Error code list

Serial Code Diagnostic Error Phase Startup Output Description number code class counter 70x 70x.01 70x.02 70x.03 70x.04 70x.05 70x.06 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722

4 Table for error codes

Table: Table for error codes

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