



LME7 – the bit different burner controls

Highlights

- Program sequence for forced draft oil or gas burners on separate PME program module
- Multicolor indication of operating status and fault status messages
- Controlled intermittent mode after 24 hours of continuous operation
- Limitation of the number of repetitions
- Remote reset facility
- Times can be parameterized
- Suitable for applications according to EN676 or EN746-2
- Approvals based on AGA, FM, UL, CSA and EN298:2012

LME7 burner controls are used for the startup and supervision of 1-, 2-stage or modulating oil or gas burners with intermittent operation.

Burner controls of the LME7 line feature a redundant, 2-channel microprocessor system and 2 independent shutdown paths for safety-related functions. The flame is supervised with an ionization probe and the UV detectors QRA2, QRA4 or QRA10. The photoresistor QRB1 is used for yellow flame and the flame detector QRC1 for blue flame.

Finally a universal PC tool for analysis and parameter settings completes the range. The PC tool can be used with all product variants.

Technical data (extract)

For further information, see basic documentation CC1P7105.

Mains voltage	AC 120 V +10 % / -15 % AC 230 V +10 % / -15 %
Cable lengths	
- Mains supply line	Max. 100 m at 100 pF/m line capacitance
- Display, BCI	Max. 3 m at 100 pF/m
- Load controller LR	Max. 30 m at 100 pF/m
- Other lines	Max. 30 m at 100 pF/m
- Remote reset	Max. 30 m at 100 pF/m
- Fuel valve	Max. 30 m at 100 pF/m
- ION flame detector cable	30 m (core-earth at 100 pF/m) laid separately
- QRA2/4/10 flame detector cable	Max. 100 m at 100 pF/m laid separately

Power and performance in a small package

The AZL2 display and operator units are designed for use with LME7 burner controls to be mounted directly on the burner or in control panels close to the burner.

They are designed for the display, operation and parameterization of specific safety and non-safety-related burner functions. Key plant data and lockout codes can be called up and displayed.

Alternatively the ACS410 software tool can be used with all standalone LME burner controls. It serves as a tool to display data, to set parameters and to store data.

Standards and certificates (extract)



Conformity to EC directives

- Electromagnetic compatibility EMC (immunity) 2004/108/EC
- Gas-fired appliances directive 90/396/EC
- Low-voltage directive 2006/95/EC



ISO 9001: 2008
ISO 14001: 2004

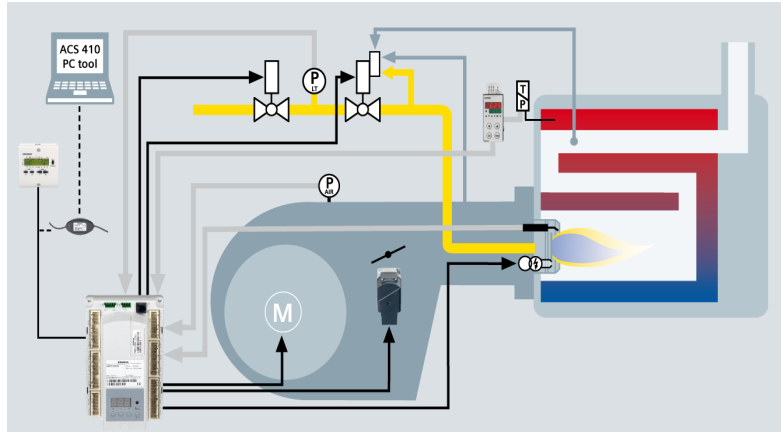


Type reference (extract)

For further information, see documentation CC1P7105 and CC1N7105.

Features	Type reference	LME71.000A1	LME71.000A2	LME73.000A1	LME73.000A2
Mains voltage AC120 V		x	-	x	-
Mains voltage AC 230 V		-	x	-	x
Pressure switch (min. gas) / POC		x	x	x	x
Gas pressure switch leakage control		x	x	x	x
Air pressure switch		x	x	x	x
Ionization probe		x	x	x	x
Connection possibilities QRB/QRC		x	x	x	x
Connection possibilities QRA2/QRA4/QRA10		x	x	x	x
Load controller with analog input signal (0...10 V, 4...20 mA, 0...135 Ω)		x	x	x	x
Load controller input (3-position step input, 2-stage)		x	x	x	x
Output actuator control		-	-	x	x
Input feedback for actuator with potentiometer 0...1 kΩ		-	-	x	x
Output PWM control		x	x	x	x
Internal LED 7 segment display		x	x	x	x
BCI bus for AZL2		x	x	x	x

Overview of the burner system with LME7 burner control



Diagnostic possibilities of the LME7 burner controls

Color code table for multicolor signal lamp (LED)

Status	Color code	Color
Waiting time «tw», other waiting states	⦿ (Off).....	Off
Ignition phase, ignition controlled	⦿ ⦿ ⦿ ⦿ ⦿ ⦿ ⦿	Flashing yellow
Operation, flame o.k.	◻	Green
Operation, flame not o.k.	◻ ⦿ ◻ ⦿ ◻ ⦿ ◻ ⦿	Flashing green
Extraneous light on burner startup	◻ ▲ ◻ ▲ ◻ ▲ ◻ ▲	Green-red
Undervoltage	● ▲ ● ▲ ● ▲ ● ▲	Yellow-red
Fault, alarm	▲	Red
Error code output (press 3 s reset button)*	▲ ⦿ ▲ ⦿ ▲ ⦿	Flashing red
Interface diagnostics (press 2 x 3 s reset button)	▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲	Red flicker light

* Error code table

Red blink code	Possible cause
2 x blinks	No establishment of flame at the end of «TSA»
3 x blinks	«LP» (air pressure switch) faulty
4 x blinks	Extraneous light when burner startup
5 x blinks	Time out «LP» (air pressure switch)
7 x blinks	Too many losses of flame during operation
10 x blinks	Wiring error or internal error, miscellaneous errors
14 x blinks	CPI contact not closed

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