SIEMENS



Gas burner controls

LME39...

Burner controls for the supervision of 1- or 2-stage gas or gas burners of small to medium capacity, with or without fan in intermittent operation.

The LME39 and this Data Sheet are intended for use by OEMs which integrate the burner controls in their products.

Use, features	
Use	LME39 are used for the startup and supervision of 1- or 2-stage gas or gas burners in intermittent operation. The flame is supervised with an ionization probe or a QRA UV flame detector with an AGQ3.xA27 ancillary unit for forced draft gas burners.
	 Applications in accordance with EN 267: Forced draft burner for gaseous fuels Type-tested and approved in accordance with DIN EN 298
Features	 Undervoltage detection Air pressure supervision with function check of the air pressure switch during startup and operation (depending on the respective parameterization) Electrical remote reset facility Multicolor indication of fault status and operational status messages Limitation of restarts Accurate program sequences thanks to digital signal handling Controlled intermittent operation after a maximum 24 hours of continuous operation BC interface

Product type	Type of document	Document number
LME	Environmental declaration	E7101 *)
LME	Product range overview	Q7101
LME39	Basic Documentation	P7106
		*) Only on request

Note



Warning!

All safety, warning and technical notes given in the Basic Documentation of the LME39 (P7106) also apply to this document! If this is not observed, there is a risk of loss of safety functions and a risk of electric shock.

CE Applied directives: • Low-voltage directives

Low-voltage directive

- Directive for pressure devices
 - Gas Appliances Regulation (EU) (EU) 2016/426
 - Electromagnetic compatibility EMC (immunity) *) 2014/30/EC

2014/35/EC

2014/68/EU

*) The compliance with EMC emission requirements must be checked after the burner control is installed in equipment

Compliance with the regulations of the applied directives is verified by the adherence to the following standards / regulations:

- Automatic burner control systems for burners and appliances
 DIN EN 298
 burning gaseous or liquid fuels
- Safety and control devices for burners and appliances
 DIN EN 13611
 burning gaseous and/or liquid fuels
- Automatic electrical controls
 Part 2-5:
 Particular requirements for automatic electrical burner control systems

The relevant valid edition of the standards can be found in the declaration of conformity!

 $\langle \mathcal{P} \rangle$

Note on **DIN EN 60335-2-102**

Household and similar electrical appliances – Safety Part 2-102:

Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections. The electrical connections of the LME39 and the AGK11.6 comply with the requirements of DIN EN 60730-2-5.



EAC Conformity mark (Eurasian Conformity mark)



UKCA conformity mark (UK)



China RoHS Hazardous substances table: http://www.siemens.com/download?A6V10883536



Burner controls have a designed lifetime* of 250,000 burner startup cycles which, under normal operating conditions in heating mode, correspond to approx. 10 years of usage (starting from the production date given on the type field). This lifetime is based on the endurance tests specified in standard EN 298. A summary of the conditions has been published by the European Control Manufacturers Association (Afecor) (www.afecor.org).

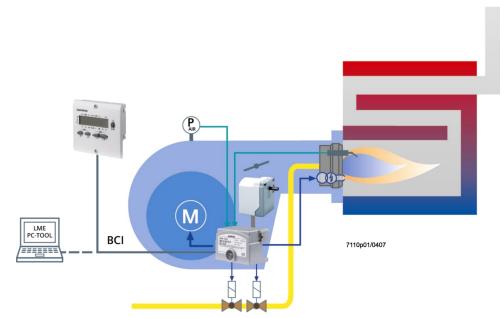
The designed lifetime is based on use of the burner controls according to the manufacturer's Data Sheet and Basic Documentation. After reaching the designed lifetime in terms of the number of burner startup cycles, or the respective time of usage, the burner control is to be replaced by authorized personnel.

* The designed lifetime is not the warranty time specified in the Terms of Delivery

Disposal notes

The LME39 contains electrical and electronic components and must not be disposed of together with domestic waste. Local and currently valid legislation must be observed.

System overview



Example: Modulating gas burner

The diagram shows the full scope of functions of the LME39 system. The actual functions are to be determined based on the respective execution / configuration!

Type summary (other types on request)

The type reference given below applies to the LME39 without plug-in base and without flame detector. For ordering information on plug-in bases and other accessories, see Accessories.

							Times	in seco	onds						
Article no.	Туре		tw	TSA	tfz (P228)	t1 (P225)	t1' (P256)	t3 (P226)	t3n (P257)	t4 (P230)	t8 (P234)	t10 (P224)	t11 (P259)	t12 (P260)	t22 (P231)
			max. s	max. s	approx. s	min. s	min. s	approx. s	approx. s	approx. s	min. s	approx. s	min. s 1)	min. s 1)	max. s
BPZ:LME39.100C1	LME39.100C1	Requirement	2.5	3	0.3	30		3	2.5	10	0	180	30	30	
BPZ:LME39.100C2	LME39.100C2	Requirement	2.5	3	0.3	30		3	2.5	10	0	180	30	30	
	Setting range	Min.		0.3	0	0		1.2	0 + 0.3	1.2	0	0	0	0	
Setting range		Max.		37.5 + 1.5 + 0.3	1.5	75		37.5	37.5 + 0.3	75	1237	179.5	75	75	
Increments (s)			0.147	0.147	0.294		0.147	0.147	0.294	4.851	4.851	0.294	0.294		
		Factory setting		t3n + tfz	0.294	32.34		3.234	2.205 + 0.3	9.996	0	179.487	32.34	32.34	
BPZ:LME39.400C1	LME39.400C1	Requirement	2.5	5	0.3		14.5	1.7	4.4	10	0				5
BPZ:LME39.400C2	LME39.400C2	Requirement	2.5	5	0.3		14.5	1.7	4.4	10	0				5
	Setting range	Min.		0.3	0		0	1.2	0	1	0				0
	Setting range	Max.		37.5 + 1.5 + 0.3	1.5		75	37.5	37.5 + 0.3	75	1237				7.4
	Increments (s)			0.147	0.147		0.294	0.147	0.147	0.294	4.851				0.147
		Factory setting		t3n + tfz	0.294		15.582	1.911	4.116 + 0.3	9.996	0				4.557

Function parameter	Parameter number	Factory setting
Restart limitation value: 'Loss of flame and no flame at end of safety time'	240	1
0 = no restart		
1 = no restart		
2 = 1 x restart		
3 = 2 x restart		
4 = 3 x restart		

Type summary (other types on request)

Note on parameterization:

Use the AZL2 or ACS410 to always set the exact value of the required time (multiples of increments of 0.147 seconds, 0.294 seconds or 4.851 seconds). When parameterizing minimum or maximum times, the possibility of a ±7% tolerance must be taken into consideration.

For minimum values: The value to be parameterized must be at least 7% greater. For maximum values: The value to be parameterized must be at least 7% smaller.

	Exampl Calcula Value to		30 second	time shall be set to 30 seconds Is + 7% = 32.1 seconds qual to or greater than the calculated value (e.g. 32,34 seconds)
	Calcula	case here:	Safety tim TSA = t3r 5 seconds t3n = 4.65 t3n = 4.05	The shall be set via the change of postignition time to 5 seconds the is set directly via the change of postignition time and flame detection time using the following formula: r + tfz = parameter 257 + 0.3 seconds + parameter 228 r - 7% = 4.65 seconds r - 600 seconds - 0.3 seconds - parameter 228 r - 7% = 0.3 seconds - parameter 228 r - 7% = 0.3 seconds r - 7% = 0.3 seconds
Legend	tfz TSA tw t1 t1' t3	Flame detection time Safety time Waiting time Prepurge time Purge time Preignition time	t4 t8 t10 t11 t12 t22	Interval between ignition OFF and release fuel valve V2 Postpurge time Specified time for air pressure signal Programmed opening time for actuator Programmed closing time for actuator 2nd safety time

t3n Postignition time (parameter 257 + 0.3 seconds)

1) Maximum running time available for actuator. The actuator's running time must be shorter, otherwise, the actuator will not reach the required position

Connection accessories for small burner controls	AGK11.6 Article no.: BPZ:AGK11.6 For connecting the small-capacity burner controls to the burner plant. Refer to Data Sheet N7201	The est St	
	Cable holder AGK66 Article no.: BPZ:AGK66 For plug-in base AGK11.6. Refer to Data Sheet N7201	- Ace	
	Cable gland holder AGK65 Article no.: BPZ:AGK65 • Cable gland holder for AGK11.6 plug-in base • Pg11 Refer to Data Sheet N7201	and an and the	
	Cable gland holder AGK65.1 Article no.: BPZ:AGK65.1 • Cable gland holder for AGK11.6 plug-in base • M16 x 1.5 Refer to Data Sheet N7201	and a start	
Flame detector	UV flame detector QRA2 Only in conjunction with ancillary unit AGQ3 Refer to Data Sheet N7712		
	UV flame detector QRA10 Only in conjunction with ancillary unit AGQ3 Refer to Data Sheet N7712		
	UV flame detector QRA4 Only in conjunction with ancillary unit AGQ3 Refer to Data Sheet N7711		
	Ionization probe Flame detector for use with Siemens burner controls for the supervision of gas flames. To be supplied by customer		

^ ria to he ordered separately) (contin <u>م</u>

Accessories (to be o	rdered separately) (cor	ntinued)	
Service tools	Facilitate on site us Refer to Data Service tool t recording set		
Article no.	Туре		
BPZ:OCI410.30	OCI410.30	 Heating engineer version (standard) Parameter change possible for the 'Heating engineer' password level 	
BPZ:OCI410.40	OCI410.40	 OEM variant Parameter change possible for the 'OEM and heating engineer' password level 	
	burner contro On request.	PZ:ACS410 for parameterization and visualization of the	
	with galvanic management Modbus or B	d gateway ommunication gateway and Modbus interface separation for burner controls, burner t systems, or flame safeguards equipped with C interface communication. a Sheet N7600.	
	OCI460.10 Article no.: S • Europea	55666-J401-A100 n variant	
	OCI460.11 Article no.: S	55666-J402-A100	

Chinese variant ٠

Actuators

Actuator **SQN3** Refer to Data Sheet N7808.



Actuator **SQN7** Refer to Data Sheet N7804.

Actuator **SQN9** Refer to Data Sheet N7806.

Display and operating units

Display and operating unit **AZL21.00A9** Article no.: **BPZ:AZL21.00A9** Separate unit, choice of mounting methods, 8-digit LCD, 5 buttons, BC interface for LME39, degree of protection IP40. Refer to Data Sheet N7542.

Display and operating unit **AZL23.00A9** Article no.: **BPZ:AZL23.00A9** Separate unit, choice of mounting methods, 8-digit LCD, 5 buttons, BC interface for LME39, degree of protection IP54. Refer to Data Sheet N7542.









Valve proving system **LDU11** (only LME39.100) Designed to check the tightness of shutoff valves in connection with gas burners and gas devices. In the event of inadmissible leakage, the system prevents the burner from starting up. Refer to Data Sheet N7696.



PTC resistor AGK25

Article no.: BPZ:AGK25

AC 230 V

• To burden terminal 3 (for burners without fan motor such as atmospheric gas burners)

Ancillary unit AGQ3

For UV supervision. Can be fitted under the plug-in base.

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Article no.	Туре	Cable length (mm)
BPZ:AGQ3.1A27	AGQ3.1A27	500
BPZ:AGQ3.2A27	AGQ3.2A27	300

Reset button extension AGK20

For more details, refer to chapter Dimensions.

Signal cable AGV50.100

Article no.: BPZ:AGV50.100

For AZL2, with RJ45 connector, cable length 1 m, pack of 10. Every AZL2 must come complete with a cable to connect it to the LME39.





Technical data

General unit data

Mains voltage	
 LME39.xxxx1 	AC 120 V +10%/-15%
 LME39.xxxx2 	AC 230 V +10%/-15%
Mains frequency	5060 Hz
Power consumption	12 VA
External primary fuse (Si)	Max. T6,3H250V



Caution!

Risk of damage to the switching contacts!

If the external primary fuse (Si) is blown due to overload or short-circuit at the terminals, the LME39 must be replaced.

Dama magnitica nasitica	Ontional
Perm. mounting position	Optional
Input current at terminal 12	Max. 5 A
Weight	Approx. 160 g
Safety class I (burner control with plug-in base)	For applications without safe separation. Protection against electric shock is
	achieved through double or reinforced
	insulation. Provision for the protective
	earth connection is made in the plug-in
	base AGK11.6.
Type of shutdown or interruption for each	Shutdown with micro switch, 1-pole
circuit	Mode of operation type 2 B
Degree of protection	IP40 (if RJ11 jack is not covered, only
	IP10)
\sim	Note
	The burner or boiler manufacturer must ensure degree of protection IP40 through
	adequate installation of the LME39.
Creepage distances and air gaps	Overvoltage category III
croopage distances and an gape	 Rated surge voltage 4 kV at 230 V
	AC
	Pollution degree 2
	Up to 2,000 m above sea level
Software class	Class C 2-channel structure
Reaction time in the event of loss of flame	Max. 1 s
Perm. cable length terminal 1	Max. 1 m at a line capacitance of 100
	pF/m, unshielded (max. 3 m at 15 pF/m)
Perm. cable length from QRA to	Max. 20 m at 100 pF/m, unshielded
AGQ3.xA27 (lay separate cable)	
Multicore cables are not permitted.	
Remote lockout reset laid separately	Max. 20 m at 100 pF/m, unshielded
Perm. cable length terminals 8, 10 and 11	Max. 20 m at 100 pF/m, unshielded
	(lay separate cable)
Perm. cable lengths remaining terminals	Max. 3 m at 100 pF/m, unshielded
Perm. input voltage terminals 6 and 11	AC 120 V +10%/-15%
	AC 230 V +10%/-15%
Possible input current terminals 6	0.5 mA
Possible input current terminals 8 and 11	1 mA

Technical data (cont´d)

	Perm. current rating	At cosφ ≥0.6	At $\cos \varphi = 2$		
	Terminal 3	Max. 2.7 A (15 A for max. 0.5 s	Max. 3 A		
	Terminals 4, 5 and 7	Max. 1.7 A	Max. 2 A		
	Terminal 9				
	• LME39.100	Max. 1 A	Max. 1 A		
	• LME39.400	Max. 1.7 A	Max. 2 A		
	Terminal 10	Max. 1 A	Max. 1 A		
Signal cable AGV50 AZL2 / OCl410 → BC interface	Signal cable	Color white Unshielded Conductor 4 x 0.141 r with RJ11-connector	Unshielded Conductor 4 x 0.141 mm²		
	Cable length AGV50	1 m			
	Location	Under the burner hood (additional measures necessary for protection class II)			
Environmental conditions	Storage	EN 60721-3-1:1997			
	Climatic conditions	Class 1K3			
	Mechanical conditions	Class 1M2			
	Temperature range	-20+60 °C			
	Humidity	<95% r.h.			
	Transport	EN 60721-3-2:1997			
	Climatic conditions	Class 2K3			
	Mechanical conditions	Class 2M2	Class 2M2		
	Temperature range	-20+60 °C	-20+60 °C		
	Humidity	<95% r.h.			
	Operation	EN 60721-3-3:1995 +	EN 60721-3-3:1995 + A2:1997		
	Climatic conditions	Class 3K3	Class 3K3		
	Mechanical conditions	Class 3M3			
	Temperature range	-20+60 °C			
	Humidity	<95% r.h.			
	Installation altitude	Max. 2,000 m above sea level			



Attention!

Condensation, formation of ice and ingress of water are not permitted! If this is not observed, there is a risk of loss of safety functions and a risk of electric shock.

AGK11.6

Connectable conductor cross-sections • Terminals 1...12 Min. 0.5 mm² Max. 1.5 mm² Wire or stranded wire with ferrules • Auxiliary terminals N, PE, 31, 32 Min. 0.5 mm² Max. 1.5 mm² Max. 1.5 mm² Wire or stranded wire with ferrules (when connecting 2 wires or stranded wires per terminal, the same crosssectional areas must be used for each terminal)

Flame supervision with ionization probe

	At mains voltage				
	UN = AC 120 V ¹)	UN = AC 230 V ¹)			
Detector voltage between ionization probe and ground (AC voltmeter Ri \geq 10 $M\Omega)$	AC 50120 V	AC 115230 V			
Switching threshold (limit values): Switching on (flame on) (DC ammeter Ri \leq 5 k Ω) Switching off (flame off) (DC ammeter Ri \leq 5 k Ω) Detector current required for reliable operation	≥DC 1.5 μA ≤DC 0.5 μA ≥DC 3 μA	≥DC 1.5 μA ≤DC 0.5 μA ≥DC 3 μA			
Switching threshold in the event of poor flame during operation (signal lamp (LED) flashes green)	Approx. DC 5 µA	Approx. DC 5 µA			
Short-circuit current between ionization probe and ground (AC ammeter Ri ${\leq}5~k\Omega)$	AC 50150 μA	AC 100300 µA			
Possible detector current during operation	Max. 20 µA	Max. 20 µA			

 $^{\rm 1})$ For applications outside the European Community, operation at mains voltage AC 120 V / AC 230 V $\pm 10\%$ is ensured

Flame supervision via ionization is accomplished by making use of the conductivity and rectifying effect of the flame.

The DC current that flows in the presence of a flame (ionization current) is largely proportional to the flame quality. This current is measured in the flame signal amplifier.

The amplifier is designed such that it only responds to the DC current component of the flame signal. This ensures that a short circuit between the ionization probe and ground cannot simulate a flame signal (since in that case AC current would flow).

Note!

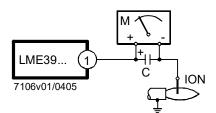
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The ignition (ignition spark) can have a negative effect on the ionization current formation during startup.



To minimize the impact

- the positioning of the ionization probe must be checked and optimized
- it may be beneficial to replace the electrical connections (phase / neutral) on the primary side of the ignition transformer



A short-circuit between ionization probe and ground initiates a non-volatile lockout depending on the restart setting.

Measuring circuit



- C Electrolytic capacitor 100...470 $\mu F;$ DC 10...25 V
- ION Ionization probe
- M Microammeter, Ri max. 5,000 Ω

For detector currents, see Technical Data.

Flame supervision with AGQ3.xA27 and flame detector QRA

Only in connection with LME39.xxxx2 (AC 230 V)!

Lifetime of the UV cell.

Notes

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UV cells and the QRA2/QRA4/QRA10 are subject to wear and tear and must be replaced as part of regular maintenance, at the latest at the end of the average lifetime of the UV cell. The lifetime of the UV cell corresponds to approx. 10,000 hours at a maximum of +50°C; higher ambient temperatures reduce the lifetime considerably. For details, refer to chapter *Technical Data* in Data Sheet N7712 for the QRA2/QRA10. For details, refer to chapter *Technical Data* in Data Sheet N7711 for the QRA4.

Mains voltage	AC 230 V +10%/-15%
Mains frequency	5060 Hz ±6%
Perm. cable length from QRA to AGQ3.xA27 (lay separate cable) Multicore cables are not permitted.	Max. 20 m, unshielded
Perm. cable length from AGQ3.xA27 to LME39.xxxx2	Max. 2 m, unshielded
Weight of AGQ3.xA27	Approx. 140 g
Perm. mounting position	Optional
Degree of protection	IP40, to be ensured through mounting
Power consumption	4.5 VA

	At mains voltage UN			
	AC 220 V	AC 240 V		
Detector voltage at QRA (with no load)				
Terminal 3 OFF (see Program sequence)	DC 400 V	DC 400 V		
Terminal 3 ON (see Program sequence)	DC 300 V	DC 300 V		
Detector voltage Load by DC measuring instrument Ri >10 M Ω				
Terminal 3 OFF (see Program sequence)	DC 380 V	DC 380 V		
Terminal 3 ON (see Program sequence)	DC 280 V	DC 280 V		
DC current detector signals with QRA	Min. required	Max. possible		
Measurement on the QRA	200 µA	500 µA		

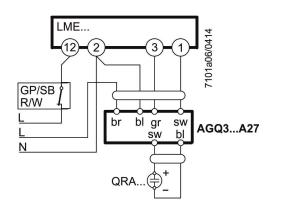
Ancillary unit AGQ3.xA27

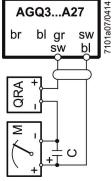
Use of the AGQ3.xA27 UV ancillary unit is mandatory in connection with LME39 burner controls.

A UV test with increased supply voltage is performed to check the through-ignition tendency of aging UV tubes. The UV test is performed in standby until the fan motor (terminal 3) is activated, refer to chapter *Program sequence*.

Connection diagram

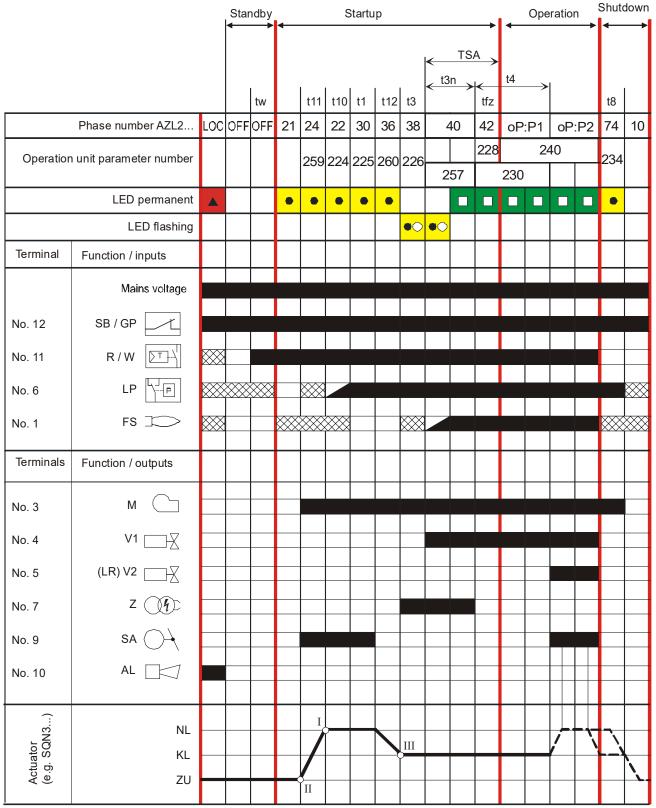
Measuring circuit for measuring the UV detector current



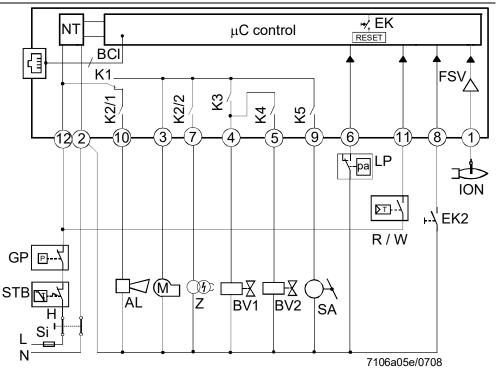


Measurement made at the flame detector QRA

Legend			
С	Electrolytic capacitor 100470 µF; DC 1025 V	bl	Blue
Μ	Microammeter Ri max. 5,000 Ω	br	Brown
QRA	Flame detector	gr	Grey
GP	Pressure switch		(old: rt = red)
SB	Safety limit thermostat	SW	Black
R	Control thermostat or pressurestat		
W	Limit thermostat or pressure switch		



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Caution!

Risk of damage to the switching contacts!

If the external primary fuse (Si) is blown due to overload or short-circuit at the terminals, the LME39 must be replaced.

Application examples

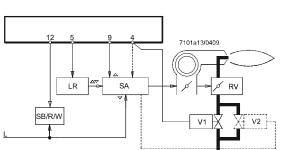


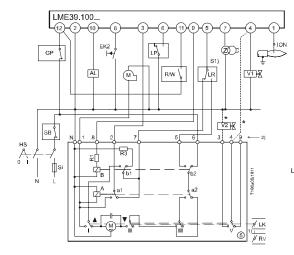
Attention!

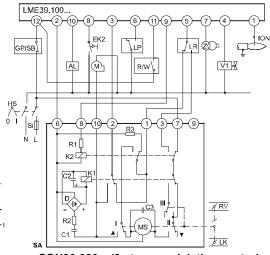
The connection diagrams shown are merely examples which must be adapted in the individual case depending on the application!

Control of actuators of 2-stage or 2-stage modulating burners. Controlled prepurging (t1) with high-fire air volume.

For information about actuators: SQN3 see Data Sheet N7808 SQN7 see Data Sheet N7804 SQN9 see Data Sheet N7806





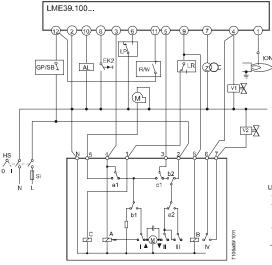


SQN90.220xx/2-stage modulating control

SQN3x.151xx or SQN3x.251xx

* Note!

With 2-stage modulating burners (with gas regulation damper (RV)), fuel valve (V2) and the dotted connection between terminals (*) are not required.



SQN7x.454xx/2-stage control 1 wire control

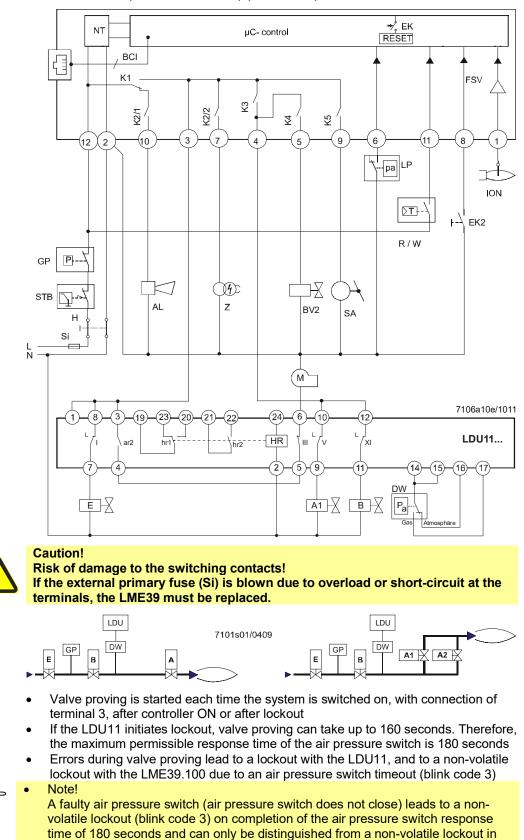
SQN7x.424xx/2-stage control 2 wire control



Caution! Risk of damage to the switching contacts!

If the external primary fuse (Si) is blown due to overload or short-circuit at the terminals, the LME39 must be replaced.

- Valve supervision before commissioning of burner
 - In the case of plants without vent pipe to atmosphere

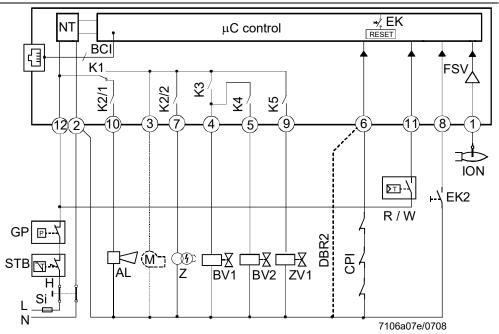


the event of faulty valve proving by the fact that there is no LDU11 lockout
The fan motor must be connected to terminal 6 of the LDU11 since release takes place via the air pressure switch upon successful valve proving

			Standby Startup Operation			Shutdown										
			TSA						F		ŗ					
								< < ^{t3n}	→	→ t4	`	-				
·				tw		t1'	t3		tf	z		t22			t8	
	Phase number AZL2	LOC	OFF	OFF	21	30	38	40	_	_	P:P1	50		:P2	74	10
Operation	n unit parameter number					256	226	257		28 23	30	240 231			234	
	LED permanent				٠	•									•	
	LED flashing						•0	•••		T						
Terminal	Function / inputs															
	Mains voltage															
No. 12	SB / GP															
No. 11	R/W [∑¯]-\	***														
No. 6	СРІ	***	***			××				***	\neq				***	***
No. 1	FS 💭	***			***		***								***	***
Terminal	Function / outputs									T						
No. 3	м															
No. 4	V1															
No. 5	V2									+						
No. 9	ZV1															
No. 7	Z (H)									╞						
No. 10	AL									╞						

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Inputs and outputs/internal connection diagram LME39.400



Caution!

Risk of damage to the switching contacts!

If the external primary fuse (Si) is blown due to overload or short-circuit at the terminals, the LME39 must be replaced.

Application examples



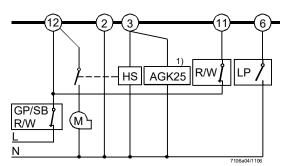
Attention! The connection diagram shown is merely an example which must be adapted in the individual case depending on the application!

Recommendation:

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Note!

In extremely EMC-stressed environments, burners without fan motor or burners equipped with fan control via auxiliary contactor should use an AGK25 to produce a burden on terminal 3. If not observed, the burner is not reliably started up



¹) AGK25 is required only if an auxiliary relay with a coil resistance of \geq 50 k Ω is used

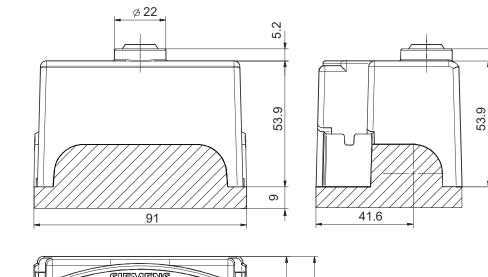
A, A1, A2	Gas valves controlled to evacuate the test space with valve proving
AGK25	PTC resistor
AL	Error message (alarm)
В	Gas valve controlled to fill the test space with valve proving
BCI	Communication interface
CPI	Closed Position Indicator
DBR2	Wire link
DW	Pressure switch - valve proving
	· -
E	Safety shut-off valve, dead closed (optional)
EK	Lockout reset button (internal)
EK2	Remote lockout reset button
FS	Flame signal
FSV	Flame signal amplifier
GP	Gas pressure switch
Н	Main switch
HS	Auxiliary contactor, relay
ION	Ionization probe
K15	Internal relay
KL	Low-fire
LK	Air damper
LKP	Air damper position
LP	Air pressure switch
LR	Load controller
M	Fan motor
MS	Synchronous motor
NL	High-fire
NT	Power supply unit
QRA	UV flame detector
R	Control thermostat / pressurestat
RV	Gas regulation damper
SA	Actuator SQN
SB	Safety limiter
STB	Safety limit thermostat
Si	External pre-fuse
t	Time
	Fuel valve
Vx	
W	Limit thermostat / pressure switch
Z	Ignition transformer
ZV	Extra valve
I, II, III	Cam actuator
t1	Prepurge time
t1′	Purge time
t3	Preignition time
t3n	Postignition time (parameter 257+0.3 seconds)
t4	Interval between ignition OFF and release of fuel valve 2
t8	Postpurge time
t10	Specified time for air pressure signal
t10 t11	Programmed opening time for actuator
t12	Programmed closing time for actuator
t22	2nd safety time
tfz	Flame detection time
TSA	Ignition safety time (t3n + tfz)
tw	Waiting time
	Input signal/output signal 1 (ON)
	Input signal/output signal 0 (OFF)
	Input permissible signal 1 (ON) or 0 (OFF)
~~~~~~	

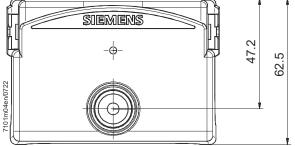
# Dimensions

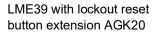
LME39

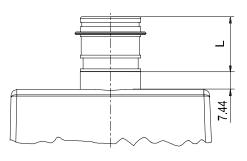
Plug-in base AGK11.6

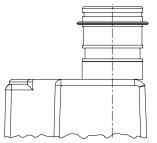
Dimensions in mm

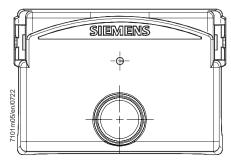








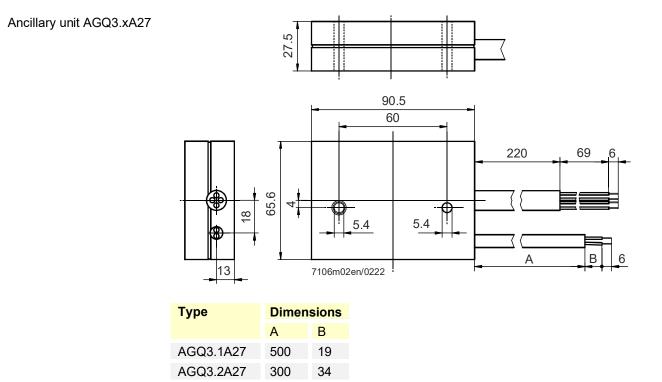




Designation	Length (L) in mm
AGK20.19	19
AGK20.43	43
AGK20.55	55

59.

# Dimensions in mm



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