

# SIEMENS



## LMV2/3

flexible and easy burner management system.

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### The LMV2/3 burner management system

with integrated electronic air-fuel ratio control, is used for the control of modulating or multistage oil or gas burners of medium capacity.

The benefits offered by electronic air-fuel ratio control are independent ratio curve settings and flexibility in terms of burner design. Fuel and air actuators can be fitted anywhere without having to give consideration to mechanical linkage.

Depending on the individual unit versions, the LMV2/3 burner management system provides a number of variable program sequences for control of the burner. There is a choice of gas and oil programs, with or without pilot burner, depending on the applications and the basic unit version.

In the case of LMV26 dual-fuel burner controls for Europe, or LMV36 for North America, any 2 fuel trains can be combined.

Variable speed drive control integrated in the different versions of the LMV2/3 is the ideal solution for efficient and favorably priced operation.

Straightforward and flexible connection of the load controller is made possible via Modbus, analog 4...20 mA interface, or 3-position step control.

### HIGHLIGHTS

- Integrated electronic air-fuel ratio control and gas valve proving
- One unit for oil- and gas-fired operation with predefined fuel trains
- Straightforward and quick commissioning
- Modbus communication
- Continuous operation with ionization current supervision
- Global approvals (CE, UL, CSA, AGA)

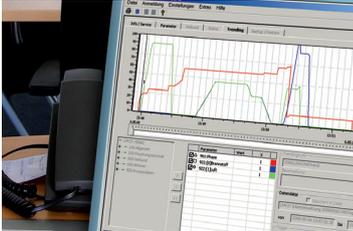
### Technical data (extract)

For further information, see documentation 7541/7544/7546/7547.

Mains voltage	AC 120 V -15% / +10%
	AC 230 V -15% / +10%

## AZL – the small supporter for LMV2/3

The AZL2 display and operator units are designed for use with LMV2/3 air-fuel ratio control 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.



## Standards and certificates (extract)



Conformity to EC directives:

- Electromagnetic compatibility EMC (immunity) 2014/30/EC
- Gas Appliances Regulation (EU) 2016/426
- Low-voltage directive 2014/35/EC
- Directive for pressure devices 2014/68/EC



ISO 9001: 2015  
ISO 14001: 2015



**Manufacturer declaration for SIL3**

## Communication in nearly all languages

Communication is becoming more and more important. For this reason, the LMV2/3 burner management system can be integrated into different types of higher level process management systems via the open and affordably priced standardized Modbus communication interface. Important actual values and setpoints can be continuously monitored. Information about parameter settings and the plant's error history can be read out, evaluated and assessed (see figure on the right side).

## Type reference (extract)

For further information, see documentation 7541/7544/7546/74547.

LMV26.300A2	LMV27.100A2	LMV36.520A1	LMV37.400A2	LMV37.420A1 (US)	
<b>Operating modes</b>					
x	x	x	x	x	- Intermittent operation - Continuous operation (only with ionization probe, without AGM60...)
<b>Basic applications, single-fuel operation</b>					
x	x	x	x	x	- Light oil direct ignition, 2- or 3-stage electronic ratio control - Light oil direct ignition, electronic modulating ratio control - Gas direct ignition, electronic/pneumatic modulating ratio control - Gas pilot ignition, electronic/pneumatic modulating ratio control - Dual-fuel burner gas / light oil with gas pilot ignition
<b>Application dual-fuel operation</b>					
x		x	x	x	- VSD control with separate curve adjustment and speed feedback - Dual fuel switch unit AGM60...
<b>Flame detectors for intermittent operation</b>					
x	x	x	x	x	- Ionization probe - UV detector QRA2..., QRA4.U, QRA10... - Photoresistive flame detector QRB... - Blue-flame detector QRC...
<b>Flame detectors for continuous operation</b>					
		x	x	x	ionization probe
<b>External integration of load controller</b>					
x	x	x	x	x	- Input heat request - Preset burner output via Modbus from building automation - Input multistage, shifting multistage or modulating (3-position signal) - 4...20 mA signal input for preset burner output
<b>Inputs/outputs</b>					
x		x			- Fuel selection
x		x	x	x	- Preset burner output 4...20 mA
x	x	x	x	x	- Current burner output DC 0...10 V
x		x	x	x	- VSD control DC 0...10 V (alternative to indication of output)
<b>Special feature</b>					
		x	x		- Switching back to pilot

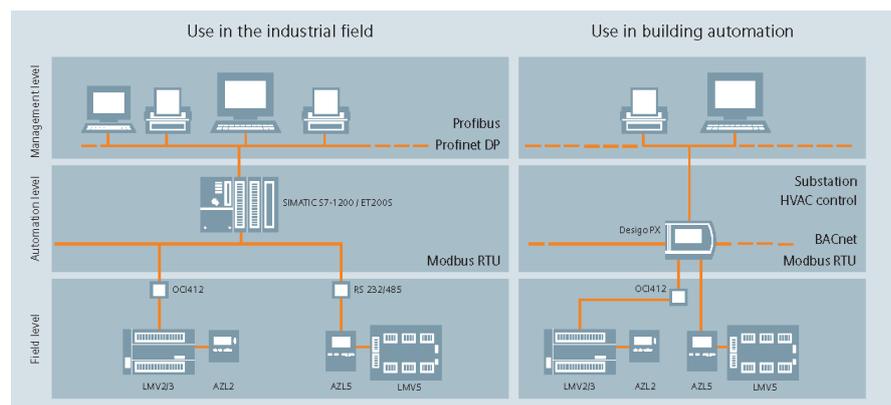


Figure: Communication of burner management systems

**Siemens AG**  
**Building Technologies**  
**Control Products & Systems**  
 Berliner Ring 23  
 76437 Rastatt  
 Deutschland  
 Tel +49 7222 598 279  
 Fax +49 7222 598 269

Bestellnummer: CC1S7541EN\_01