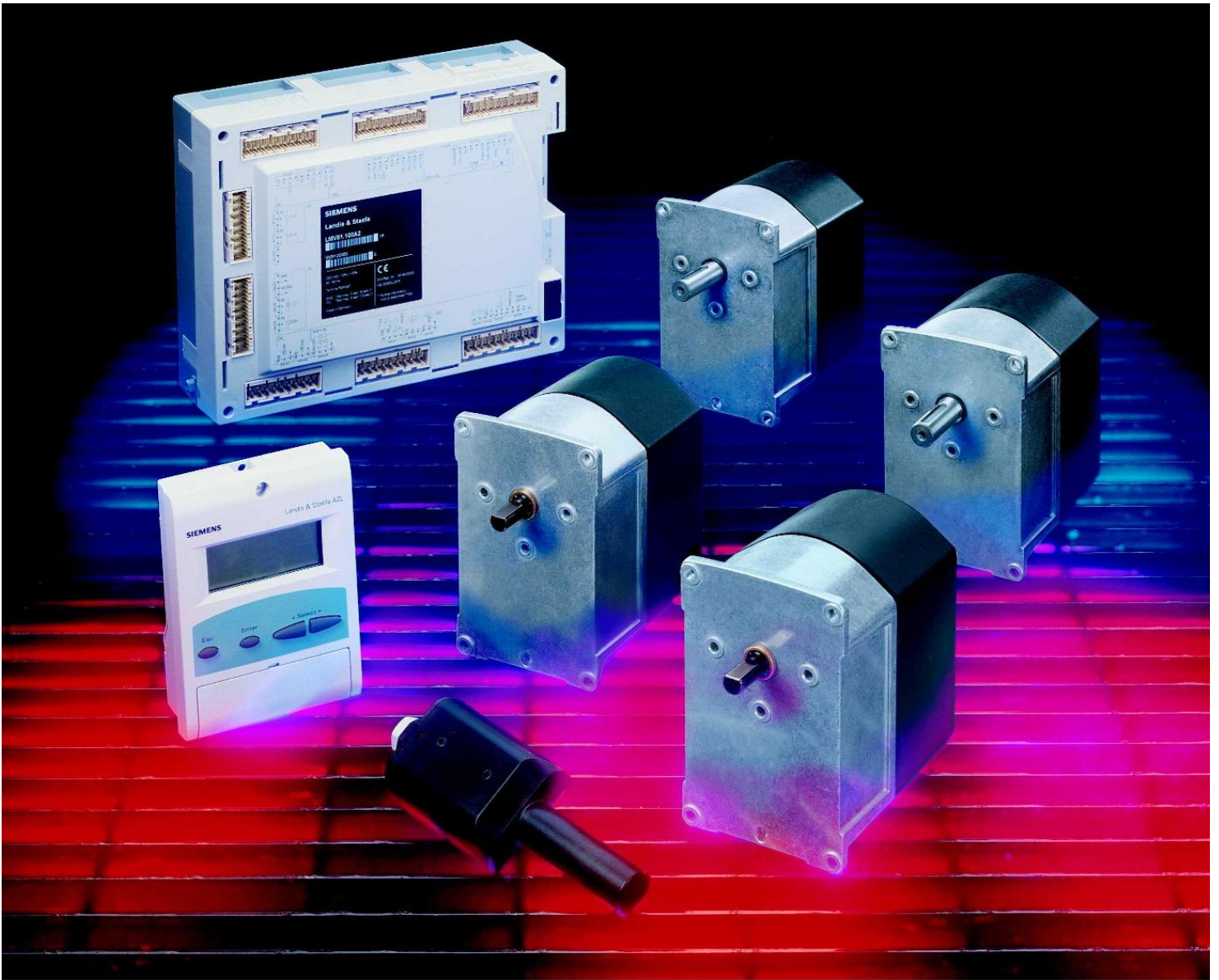


SIEMENS

LMV...

Linkageless

Burner Management Systems



Siemens Building Technologies

LMV...

Burner Control

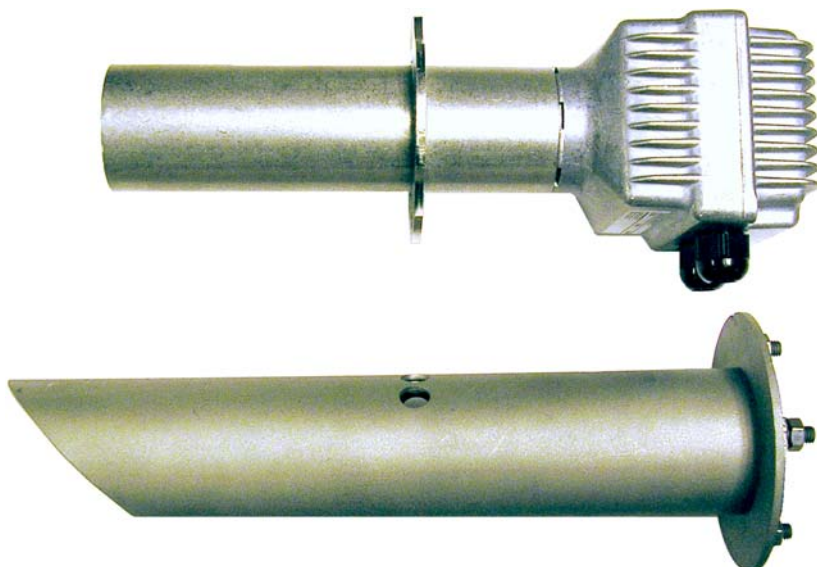
LMV51 or LMV52 standard features:

Advanced flame safeguard functionality
Linkageless actuators for air, gas, oil, FGR ...
High accuracy and resolution - 900 repeatable motor positions
Integrated valve proving system
Single or dual fuel applications
15 Programmable points per curve
Ignition position independent of the curves
Annunciation of all standard points – over 100 terminals on base!
4 Password levels: End-user, Installer, Burner manufacturer, Siemens
Autotune PID temperature or pressure controller
Upload and download parameters, between the LMV51, AZL and PC
Components match the system, all parts manufactured by Siemens
Remote diagnostics
Adjustable programming times for purge, trial-for-ignition, pilot, etc.
Worldwide Approvals
NO PC REQUIRED to program



LMV52 features:

Control from 1 to 6 actuators
Optional oxygen trim system
Optional variable speed drive
Input for fuel meters (oil and gas)



SQM

Actuator

Main features:

Maximum angular rotation of 90°
Programmable clockwise or counter clockwise
24 volt AC (Powered from LMV transformer)
No user pot adjustments required!
Stepper motor controlled by digital signals
Positioning and speed controlled by the LMV51 System Bus
Position indication is via the AZL display-unit
900 motor positions in 90° of rotation

Model	Drive torque	Programmable running time
SQM45	25 in-lbs	10 to 120 sec
SQM48.4	175 in-lbs	30 to 120 sec
SQM48.6	350 in-lbs	60 to 120 sec



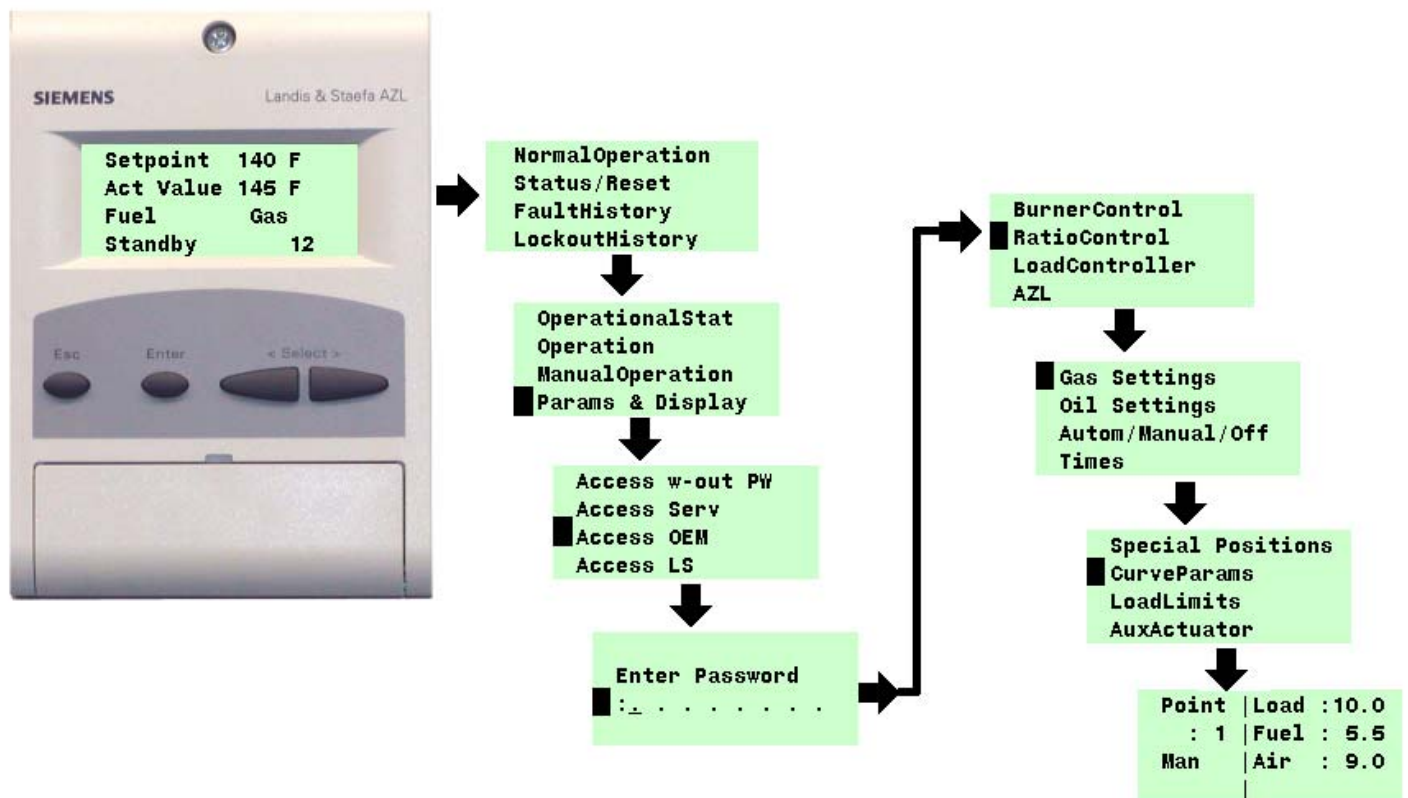
AZL

Display / Operating Unit

Main features:

Access and configure all parameters
NO PC REQUIRED to program
Clear text display (4 lines x 16 characters)
User friendly, intuitive menu system
Multiple languages - including, English, German, and French
ACS 450 port on front for programming
MODBUS® port on back for communication to BMS or PLC systems
Quick removal mounting screws

Menu, curve programming example:



QRI

Flame scanner

Main features:

High sensitivity Infrared flame detector for gas and oil
Filters out glowing refractory and 50/60 Hz lighting
Front or side viewing
Built-in self checking amplifier for continuous use
3/4" NPT adapter with heat shield



O₂ Trim System

LMV52 option

Main features:

- Proven zirconium dioxide analyzer
- Continuous adjustment of fuel air ratio
- Flue gas oxygen monitoring
- Self calibrating sensor and self test diagnostics
- Adjustable O₂ alarm level
- Optional ambient and flue gas temperature measurement
- Optional combustion efficiency calculation

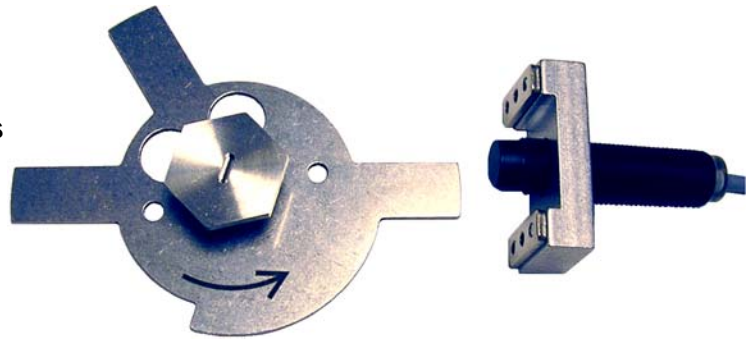


VSD module

Variable speed drive module - LMV52 option

Main features:

- Enables the use of variable frequency drives
- Actual motor speed detected by sensor
- Sensor confirms fan direction of rotation

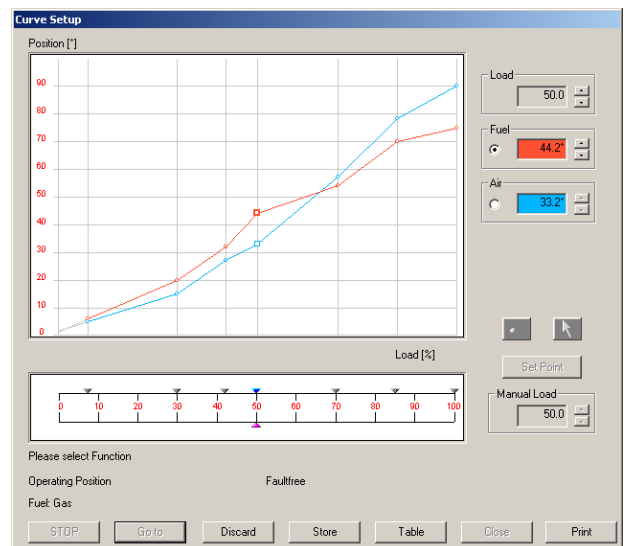


ACS 450 Commissioning Tool

LMV51 or LMV52 option

Main features:

- Runs under Windows
- Normal Operation screen
- Curve adjustment with mouse
- Allows setting of all parameters
- Password protected
- Trending and data logging



Siemens Building Technologies, Inc.

Combustion Burner Boiler
1000 Deerfield Parkway
Buffalo Grove, IL 60089-4513

Tel: (847) 941 5120
Fax: (847) 215 9026