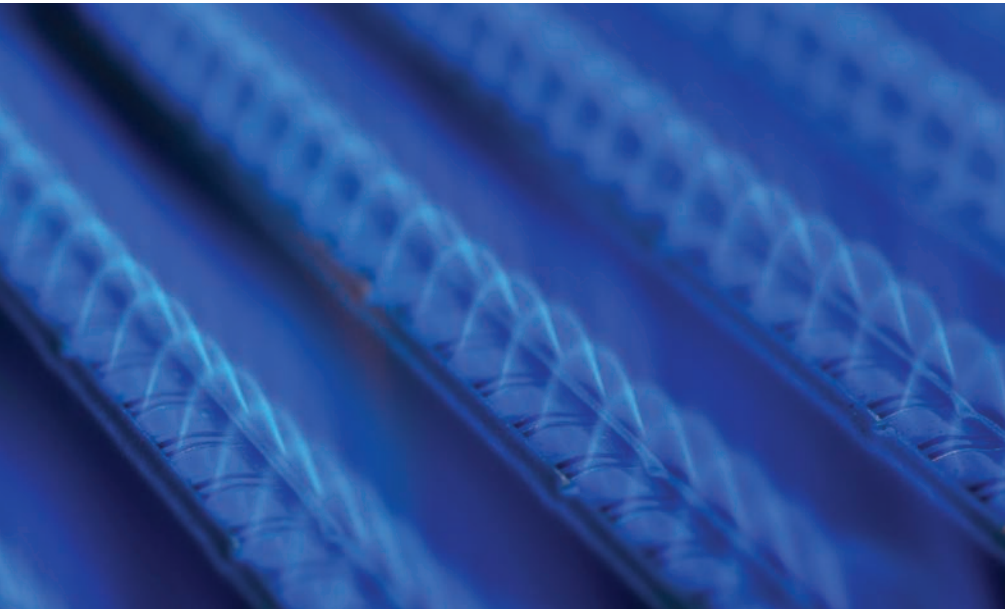


SIEMENS



# LMV5... Linkageless Burner Management System

Combustion Controls



*World-class products,  
support and  
performance*

With the LMV5...Linkageless Burner Management System, Siemens delivers a fully integrated system that is not only easy to install and commission, but also provides improved burner performance and efficiency, while ensuring accuracy and safe operation.



**Key features and benefits include:**

- Integrated linkageless control, burner flame safeguard and modulation PID control
- Single and dual-fuel applications
- Controls up to six independent actuators for optimal efficiency in low NOx burner applications
- Integrated PID Temperature/Pressure Controller with auto tune for extremely accurate process control
- VFD control with actual motor RPM speed sensor provides reliable, efficient and safe control of the combustion air blower
- Integrated gas valve proving system checks for leaks on every burner cycle for increased safety
- Up to 15 programmable points for each fuel-air ratio curve providing greater flexibility and tighter control
- 900 highly repeatable actuator positions for precise control
- Digital positioning feedback from actuators ensure unmatched repeatability
- Independent ignition position provides reliable light off
- Annunciation of over 500 fault conditions permits quick, accurate troubleshooting
- World-wide approvals and technical support
- Optional O2 Trim for Standard (LMV52.2) and Ultra-Low NOx (LMV52.4) burner applications
- Optional Flue Gas Recirculation Hold based on Stack Temperature/Time for reliable light off and burner operation
- Adjustable Flame Failure Response Time

### Fully integrated, easy-to-use HMI

Programming and commissioning of the LMV5 takes minutes, not days. Simply log in, select the programming option and define the specific parameters. It is that easy.

- User-friendly, menu system for fast programming and commissioning
- Quickly access and monitor the system at all times
- Real text annunciation of fault conditions for fast troubleshooting
- Multi-level password protection for added security
- Real-time ModBus communication



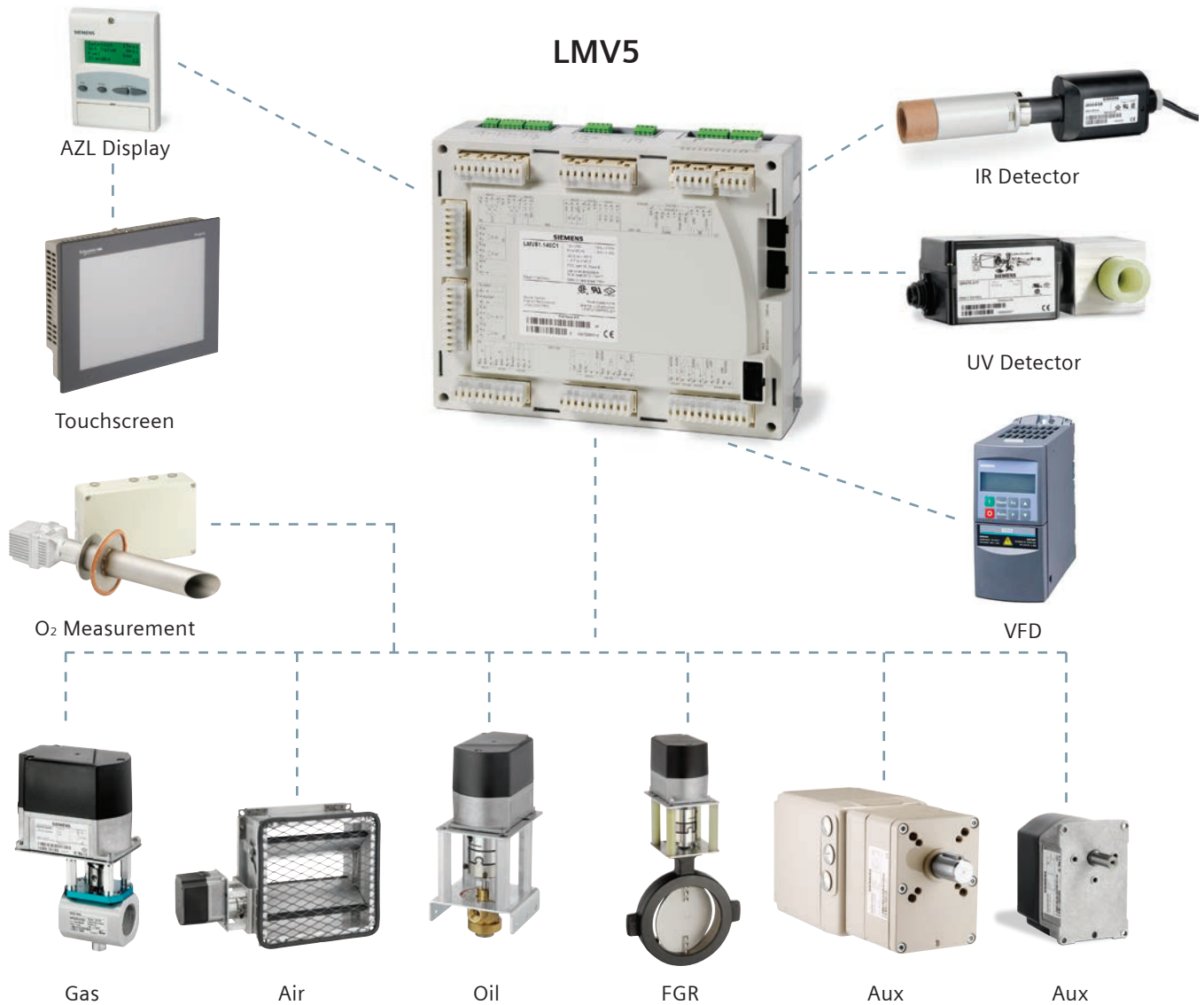
### Accuracy is the key to control

Driven by a digital Can-Bus signal, the movement of the SQM4 actuator is accurate to 1/10th of one degree. A digital feedback signal ensures the correct position is maintained throughout the modulating range.

Accurate control ensures that the burner will always perform with repeatability and accuracy as well as within the recommended safety parameters.

### Additional options for saving energy

High impact options including; O<sub>2</sub> trim system, Variable Frequency Drive, Touchscreen and PC Commissioning Tool meet specific control needs, improve process control and reduce energy costs.



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