

Building blocks of building automation



KMD-7001

KMD-7000 VAV Series

Fully programmable 4x4 controllers



KMD-7000 VAV Series

4 X 4 Direct Digital Controllers

The KMD-7000 VAV series controllers are full peer-to-peer, programmable, direct digital controllers with actuator integration that offer on-board velocity sensors for use with single or multi-point differential pressure stations or Pitot tubes. The controllers are perfect for stand-alone environments, or as part of a complete facilities management system.

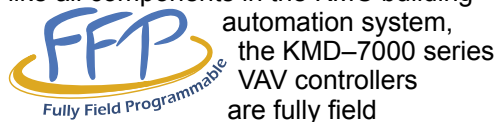
These Tier 2, 4X4 VAV controllers are designed to provide precise monitoring and control of connected points. Through intuitive programming, these controllers can be used to implement proportional (P), proportional + integral (PI), or proportional + integral + derivative (PID) control sequences.

These controllers can also be used to optimize the energy consumption of your building by implementing a variety of energy management standards. And, like all components in the KMC building automation system, the KMD-7000 series VAV controllers are fully field programmable and backward compatible with all preceding KMDigital systems to 1984.

The quality processes of KMC Controls have been certified to ISO 9001 standards. KMC maintains tight quality control to assure every component is properly designed and manufactured, with materials and workmanship guaranteed to assure longest-term product reliability and performance.

KMD-7000 VAV Series Highlights:

- Stand-alone or networked peer-to-peer capabilities
- 2 Trend Logs for data logging purposes, each supporting up to 4 selected elements at user-defined intervals
- 2 control groups for organizing selected elements in real-time display
- Weekly time schedule with holiday and special event overrides
- Password and security level protection



SPECIFICATIONS

Inputs	4-3 universal with 10 bit analog/digital conversion; 1 dedicated to velocity sensor
Analog	0 to 5 VDC, 4-20 mA
Digital	On/off (pulse counting up to 16 Hz)
Impedance	10KΩ
Wiring	12-22 AWG
Outputs (outputs are dependent on model type)	4-1 universal with 10 bit analog/digital conversion; 1 Triac; 1 Relay; 1 actuator dedicated
Analog	0 to 10 VDC
Digital	0/12 VDC
Triac	Zero crossing, 12 VAC min., 30VAC max voltage, 20 mA min., 1A max. current
Relay	30 VAC/VDC, 2 A Max
Short Protection	Yes
Wiring	12-22 AWG
Features	32 Variables, software selected for analog or digital 4 PID controllers 5 user defined control basic programming areas 2 Control groups for organizing selected elements in real-time display 3 Custom defined lookup tables Weekly schedule with holiday/special event overrides NetSensor® compatible
Communications	EIA-485 up to 38,400 baud
Logging	12 runtime logs with time/date stamp and cumulative runtime 12 trend logs for data logging purposes, each supporting up to 4 points; graph or table display
Alarms	Alarm buffering up to 10 alarms On-board 68 character alarm and maintenance messages
Security	6 operator access Levels 27 operator passwords
Velocity Sensor	Platinum-ceramic flow through, 0 to 3000 FPM (15.24 m/s)
Torque	50 in-lb. min.(5.7N•m), 70 in-lb. max.(7.9N•m)
Angular Rotation	0 to 95°, end stop adjustable at 45/60/90° rotation
Models	
KMD-7001	Single duct with 3 universal inputs and outputs (18°/minute actuator)
KMD-7002	Dual duct with 3 universal inputs and outputs (18°/minute actuator)
KMD-7003	Single duct with 3 universal inputs and 1 universal, 1 Triac, and 1 Relay output (18°/minute actuator)
KMD-7051	Single duct with 3 universal inputs and outputs (60°/minute actuator)
KMD-7052	Dual duct with 3 universal inputs and outputs (60°/minute actuator)
KMD-7053	Single duct with 3 universal inputs and 1 universal, 1 Triac, and 1 Relay output (60°/minute actuator)
General Specifications	Supply voltage 24 VAC -15% / +20%, 10 VA Weight 38.4 oz. (1 kg) Dimensions 8.23 x 4.22 x 2.25 in. (209 x 107 x 57mm) UL 916 Energy Management Equipment, FCC & CE

building your comfort zone