

# KMD-7002, 7052 Direct Digital VAV Controllers–Dual Duct Units

## **Description**

The KMD-7002/7052 controllers are direct digital controllers, integrated into an actuator, designed primarily for Dual Duct VAV terminal units. This controller will operate independently in a standalone mode or jointly in a peer-to-peer network sharing system data and/or programs. Standard dual duct VAV control sequences have been incorporated to provide pressure independent control of a dual duct VAV unit.

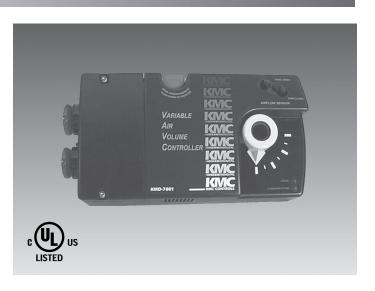
Accessible control basic programming allows customizing of the standard sequences for temperature setback, overrides, and other user defined sequences.

Each controller has an on board flow-through sensor for use with a single or multi-point differential pressure measuring station or Pitot tube. The sensor utilizes twin platinum-ceramic resistance temperature sensors for control accuracy to within 3% of setpoint.

## Features

KMD-7002/7052 Controllers feature:

- 4 Inputs, software selected for analog or digital with one dedicated to the flow sensor.
- 4 Outputs, software selected for analog or digital with one dedicated to the actuator.
- 32 Variables, software selected for analog or digital.
- 4 P, PI, and/or PID controllers.
- 5 user defined control basic programming areas.
- 2 Trend Logs, each log storing up to 4 selected elements at user defined intervals.
- 2 Run-Time totalizer and event logs.
- 2 Control groups for organizing selected elements in real-time display.
- 3 Custom defined lookup Tables.
- Weekly schedule w/ Holiday/Special event overrides
- Password and security level protection.



## Applications

The KMD-7002/7052 are designed to operate as the cold duct or master controller in conjunction with the TSP-6001, 6051 as the hot duct or slave controller. Typical applications include dual duct and tracking.

#### Accessories |

The following accessories are available:

HFO-0011:

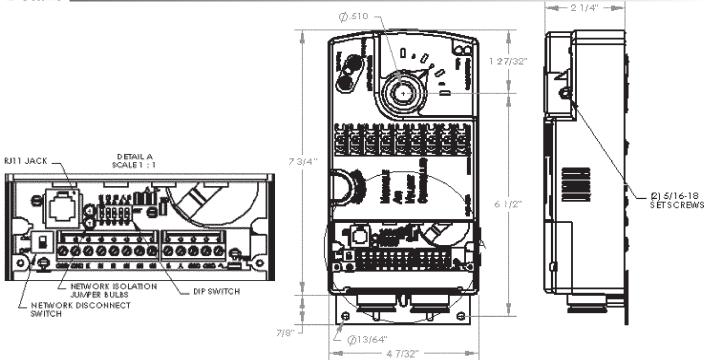
3/8" shaft adaptor

## **Models**

The following controller models are available:

KMD-700218°/minute actuatorKMD-705260°/minute actuator

## Details



## Specifications

Supply Voltage	24 VAC -15% / +20%, 10 VA	Torque	50 in-lb. min.(5.7Nm), 70 in-lb.
Communications	RS–485 @ 38,400 baud maxi-		max.(7.9Nm)
	mum with Belden 82760 or equivalent 18 AWG twisted	Angular Rotation	0 to 95°, end stop adjustable @ 45/60/90° rotation
	shielded, $5.5\Omega$ /1,000 ft. and $\leq 51$ pf/ft (maximum 4,000 feet	Motor Timing	
	w/o repeater)	KMD-7001	18°/minute @ 60 Hz. 15°/ minute @ 50 Hz.
<b>Networked Points</b>	32 in / 32 out	KMD-7051	60°/minute @ 60 Hz. 50°/
Inputs	3 universal analog or digital		minute @ 50 Hz.
Analog	0 to 5 VDC	Weight	2.4 lbs. (1 kg)
Digital	On/Off	Approvals	UL 916 Energy Management
Impedance	10ΚΩ		Equipment, FCC & CE
Outputs	3 universal analog or digital	<b>Ambient Limits</b>	
Analog	0–10 VDC (30ma max.)	Operating	32°-120°F (-0°-49°C)
Digital	0/12 VDC (50ma max.)	Shipping	-40°-140°F (-40°-60°C)
Short Protection	Yes	Humidity	0–95% RH, non-condensing
Enclosure	Black flame retardant polymer UL94–5V plenum rated	ý	
Connections	Wire clamp, 12–22 AWG, Cu		
Velocity Sensor	Platinum-ceramic flow-	KMC Controls, Inc.	
,	through, 0 to 3000 FPM (15.24 m/s) using 24", 1/4 FR tubing and SSS-1000 series flow pick- ups. Range dependent upon DP pickup, tubing size/length and connections	19476 Industrial Drive	
		New Paris, IN 46553	
		574.831.5250	
		www.kmccontrols.com	