

KMDigital Controller Product Selection Guide

Current Controller Model w/ RTC*	KMD-5210*	KMD-5205*	KMD-5270*	KMD-5801*		KMD-5831*				KMD-7011C*	KMD-7013C*	KMD-7101C*	KMD-7102C*	KMD-7301C*	KMD-7302C*	KMD-7401C*
Current Controller without RTC				KMD-5802			KMD-7001 KMD-7051	KMD-7002 KMD-7052	KMD-7003 KMD-7053	KMD-7011	KMD-7013	KMD-7101	KMD-7102	KMD-7301	KMD-7302	KMD-7401
BACnet Equivalent				Yes		Yes	Yes		Yes					Yes	Yes	Yes
Discontinued/Legacy Controller**	KMD-5110*			5501/5504*	KMD-5821*		KMD-6001	KMD-6002		KMD-6011	KMD-6013	KMD-6101	KMD-6102	KMD-6301	KMD-6302	KMD-6401
	KMD-5111*			5502/5505			KMD-6051	KMD-6052		KMD-6907	KMD-6908	KMD-6906	KMD-6905	KMD-6901	KMD-6909	KMD-6904
Description	LAN Controller	LANLite (8x8)	WebLite (8x8)	PLC-16 (8x8)	PLC-16+ (8x8)	PLC-28 (16x12)	VAV Single Duct (4x4)	VAV Dual Duct (4x4)	VAV Fan Induction (4x4)	VAV (4x4)	VAV (4x4)	FCU (4x4)	FCU (4x4)	AHU (4x4)	RTU (4x4)	HPU (4x4)
Tier Type	T1	T1	T1	T2	T2	T2	T2	T2	T2	T2	T2	T2	T2	T2	T2	T2
Inputs (Extended Points)***	Up to 128 I/Os	8	8	8	8	16 (9-16)***	4	4	4	4	4	4	4	4	4	4
Outputs (Extended Points)	Up to 128 I/Os	8	8	8	8	12 (9-12)	4	4	4	4	4	4	4	4	4	4
Variables (Ext. Points)	256	128	128	64 (33-64)	64 (33-64)	128 (33-128)	32	32	32	32	32	32	32	32	32	32
PID Loop Controllers (Ext. Pts.)	64	8	8	8	8	16 (9-16)	4	4	4	4	4	4	4	4	4	4
System Groups (Ext. Pts.)	64	32	32	4	4	8 (5-8)	2	2	2	2	2	2	2	2	2	2
- Points per System Group	160	64	64	32	32	32	32	32	32	32	32	32	32	32	32	32
Weekly Schedules (Ext. Pts.)	32	8	8	4	4	8 (5-8)	1	1	1	1	1	1	1	1	1	1
Annual Schedules (Ext. Pts.)	16	4	4	2	2	4 (3-4)	0	0	0	0	0	0	0	0	0	0
Programs (Control Basic)	128	10	10	5	5	10	5	5	5	5	5	5	5	5	5	5
Tables (User Defined)	5	5	5	3	3	6	3	3	3	3	3	3	3	3	3	3
Trend Logs	96	16	16	8	8	12	2	2	2	2	2	2	2	2	2	2
Runtime Logs	128	16	16	8	8	12	2	2	2	2	2	2	2	2	2	2
Passwords	256	256	256	27	27	27	27	27	27	27	27	27	27	27	27	27
Alarms	192	192	192	10	10	10	10	10	10	10	10	10	10	10	10	10
Sign-on Logs	32	32	32	None	None	None	None	None	None	None	None	None	None	None	None	None
Arrays	48	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0
Custom Units (D or A)	8	8	8	3	3	3	3	3	3	3	3	3	3	3	3	3
Connections/Ports																
EIA-485 (Terminals)	T1 and T2	T2	T2	T2	T2	T2	T2	T2	T2	T2	T2	T2	T2	T2	T2	T2
NetSensor (Modular EIA-485)				Yes****	Yes	Yes	Yes****	Yes****	Yes	Yes****	Yes****	Yes****	Yes****	Yes****	Yes****	Yes****
Ethernet	Yes	Yes	Yes													
EIA-232 (Terminals)	2 ports															
EIA-232 (9-pin D-sub)	1 port (shared)	1 port	1 port													
Modem Connection	Through EIA-232 port			Through EIA-485 network connection to a KMD-5559 CommTalk Communications Interface												
T1 Connectable Devices (Total)	32	32	32	1	1	1	1	1	1	1	1	1	1	1	1	1
T2 Connectable Devices (Total)	248	32	32	124	124	124	124	124	124	124	124	124	124	124	124	124
Write to Flash (# = device address)*****	Every 6 hrs	Every 6 hrs	Every 6 hrs	Midnight + #	Midnight + #	Midnight + #	Midnight + #	Midnight + #	Midnight + #	Midnight + #	Midnight + #	Midnight + #	Midnight + #	Midnight + #	Midnight + #	Midnight + #
Program Size (Each)	2500 bytes or 100 lines	2500 bytes or 100 lines	2500 bytes or 100 lines	1024 bytes or 100 lines	1024 bytes or 100 lines	2048 bytes or 100 lines	1024 bytes or 100 lines	1024 bytes or 100 lines	1024 bytes or 100 lines	1024 bytes or 100 lines	1024 bytes or 100 lines	1024 bytes or 100 lines	1024 bytes or 100 lines	1024 bytes or 100 lines	1024 bytes or 100 lines	1024 bytes or 100 lines
Bit Architecture																
Processor	32	32	32	16	16	16	16	16	16	16	16	16	16	16	16	16
Input, A/D	16	12	12	10	16	10	8	8	8	8	8	8	8	8	8	8
Output, D/A	12	12	12	8	8	8	8	8	8	8	8	8	8	8	8	8
Transfer Points (Total)																
In from T1	127	127	127													
Out to T1	127	127	127													
In from T2	512	512	512													
Out to T2	64	64	64													
In from all T1 & T2 Controllers				124	124	124	32	32	32	32	32	32	32	32	32	32
Out of a T2 Controller				32	32	63	32	32	32	32	32	32	32	32	32	32
Other Notes and Comments	16 inputs on KMD-5220 module, 16 outputs on KMD-5221				If replacing, see the KMD-5831, 5801/5802, or 5210		**VAV: 1 input = air flow sensor, 1 output = actuator; 7003/7053 have 1 universal, 1 triac, and 1 relay output, 7001/7002/7051/7052 have 3 universal outputs; actuator stroke per minute: KMD-7001/7002/7003 = 18° KMD-7051/7052/7053 = 60°		VAV: inputs = 3 universal; outputs = 3 universal	VAV: inputs = 3 universal, and outputs = 1 triac, 1 tri-state, and 1 universal	FCU: outputs = 3 relays (sequenced by one output) and 2 triacs	FCU: outputs = 4 relays (3 relays sequenced by 1 output) and 2 triacs	AHU: outputs = 3 universal and 1 triac	RTU: outputs = 1 universal, 1 triac, and 2 staged triacs	HPU: outputs = 4 triacs	

*Upon power restoration after up to 72 hours of power outage, the Real Time Clock in applicable models automatically resets the system time.

**Cross-reference to discontinued legacy controller. Some specifications in discontinued controllers may be slightly different from those of equivalent current controllers. Specifications shown are for current controllers.

***Extended points in current Tier 2 controllers are points that are higher than those in the legacy/obsolete controllers.

Extended points cannot be shared with a Tier 1 device.

****KMD-5800/7000 series are compatible with KMD-1160/1180 series NetSensors. KMD-6000 series are compatible only with KMD-1101/1121/1104/1124 NetSensors. Modular plugs in KMD-5501/5502/5504/5505/5559 are for configuration only.

*****Controllers also write to flash when a change in the software has been saved/downloaded.

(See individual data sheets for additional product details.)