Building blocks of building automation
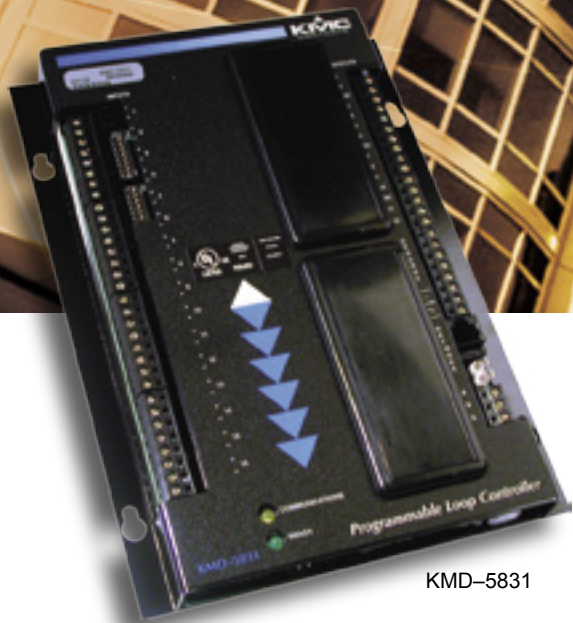
PLC–28 Direct Digital Controller

A powerful 16–input and 12–output
direct digital controller

KMD–5831

KMC CONTROLS

The KMD–5831 is a full peer-to-peer, programmable, direct digital controller that is perfect for stand-alone environments, or as part of a complete facilities management system.

This Tier 2, 16X12 controller is 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.

The KMD–5831 controller can also be used to optimize energy consumption in your building by implementing various energy management standards. And, like all components in the KMC building automation system, the KMD–5831 controller is fully field programmable and backward compatible with all preceding KMDigital systems to 1984.

FFP
Fully Field Programmable

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–5831 Highlights:

• 16 universal inputs and 12 outputs that are software selectable as analog or digital with standard and custom ranges

• 10 user definable programs

• 12 trend and runtime logs with time/date stamp and cumulative runtime

• 8 weekly time schedules with overrides and 4 annual routines for holiday schedules

• Programs and program parameters are stored in nonvolatile flash memory

• 6 system groups for organizing up to 32 selected points each into a real-time display or color graphic

• Power-fail with auto restart capabilities

SPECIFICATIONS

Inputs	16 universal with 10 bit Analog and Digital conversion
Analog	0 to 5 VDC, 4–20 mA
Digital	On/Off (pulse counting up to 16 Hz)
Impedance	10K Ω
Over voltage Protection	Yes
Wiring	12–22 AWG
Outputs	12 universal
Analog	0 to 10 VDC
Digital	0 to 12 VDC
Short Protection	Yes
Wiring	12–22 AWG
Features	Stand-alone or networked peer-to-peer capabilities
	2-way modem communications with KMD–5559
	128 variable points–software selectable as analog or digital with standard and custom ranges; may have manually set or program driven values
	Networked points in: 124
	Networked points out: 63
	NetSensor® compatible
	16 PID loops
	6 system groups for organizing up to 32 selected points each into a real-time display or color graphic
	8 weekly time schedules with overrides
	4 annual routines for holiday schedules
	Automatic daylight saving time (requires WinControl® v 2.03 or later)
	On-board 68 character alarm and maintenance messages
	Power-fail with auto restart capabilities
	Programs and program parameters are stored in nonvolatile flash memory
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
General Specifications	Supply Voltage 24 VAC –15% / +20%, 20 VA
	Weight 16 oz. (0.5 kg)
	Dimensions 9.00 x 6.50 x 1.00 in. (229 x 152 x 25mm)
	UL 916 Energy Management Equipment, FCC & CE

building your comfort zone

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