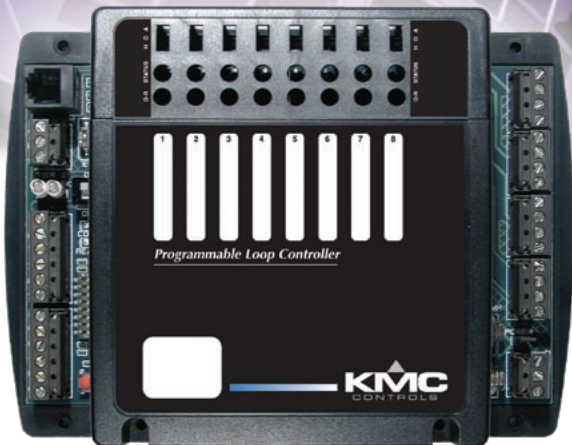


Building blocks of building automation



## KMD-5801/5802 Direct Digital Controllers

Eight input and eight output (PLC-16) fully programmable controllers for general purpose HVAC and building automation applications



# KMD-5801/5802

## 8 x 8 Direct Digital Controllers

The versatile, general purpose KMD-5801/5802 controllers are fully programmable and can serve in stand-alone environments or in peer-to-peer networks with other KMDigital devices.

As part of a complete building automation system, these Tier 2, 8 x 8 controllers provide precise monitoring and control of connected points, such as room temperature, humidity, fans, lighting, and other building automation functions. They can help optimize the energy consumption of a building by implementing a variety of energy management standards.

These controllers can be used to implement proportional (P), proportional + integral (PI), or proportional + integral + derivative (PID) control sequences. They install and configure easily, are intuitive to program, and contain modular jacks for quick connections to KMD-1160/1180 series NetSensors®. Like all components in the KMC building automation system, the KMD-5801/5802 controllers are fully field programmable and backward compatible with all preceding KMDigital systems to 1984.



These robust controllers are built with exacting care. The quality processes of KMC Controls have been certified to ISO 9001 standards. Strict quality control ensures every component is properly designed and manufactured for long-term product reliability and performance.

(NOTE: For additional specifications, see the KMD-5801/5802 data sheet.)

building your comfort zone™

## Specification Highlights

### Models

KMD-5801: controller with a real-time clock

KMD-5802: controller without a real-time clock

### Inputs

8 universal (selectable as analog or digital) with 10-bit analog-to-digital conversion and standard and custom ranges

Analog: 0 to 5 VDC (or 4 to 20 mA with an external resistor)

Digital: On/off (pulse counting up to 16 Hz)

### Outputs

8 universal outputs are software selectable as analog (0 to 10 VDC) or digital (0 or 12 VDC) with standard and custom ranges

Short protection: current limited to 100 mA per output (350 mA total)

Slots for HPO-6700 series output override boards

### Features

64 variable points, software selectable as analog or digital with standard and custom ranges

124 networked points in and 32 out

8 PID control loops and 5 user-definable Control Basic programs

3 user-defined tables (e.g., for sensor conversion tables)

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

4 weekly time schedules with overrides and 2 annual routines for holiday schedules

8 trend logs (which trend 4 points each) and 8 runtime logs

6 operator access levels and 27 operator passwords

Program parameters are stored in nonvolatile flash memory; power-fail with auto restart capabilities and programs

EIA-485 network communicates with up to 124 (total) KMC Tier 2 controllers

### General Specifications

Supply voltage: 24 VAC (-15% /+20%), 60 Hz, 25 VA, Class 2 only

Weight: 14 oz. (395 grams)

Dimensions: 7.55 x 5.38 x 1.98 inches (192 x 137 x 50 mm)

### Regulatory

FCC Class B, Part 15, Subpart B

CE compliant

UL 916 Energy Management Equipment listed

UL 864 Smoke Control Equipment listed (UUKL)