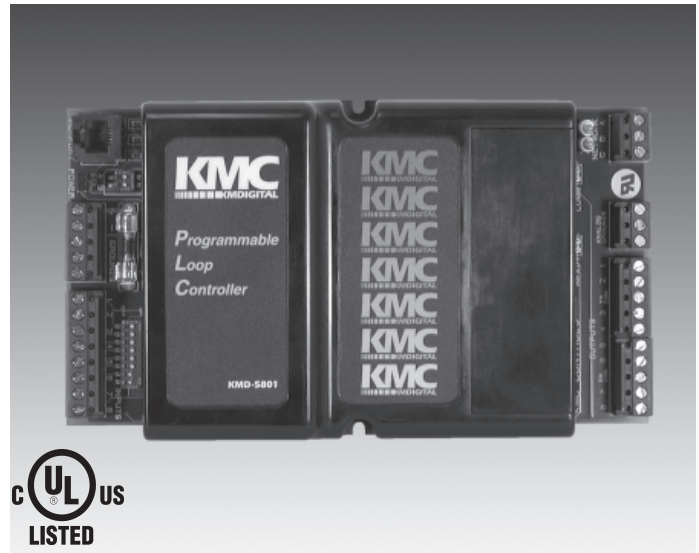


Description

The KMD-5801/5802 controllers comprise a line of full peer-to-peer, programmable, direct digital controllers. Used in a stand-alone environment, networked to other KMC digital controllers, or as part of a complete facilities management system (multiple LAN), the KMD-5801/5802 controllers provide precise monitoring and control of connected points. Through a combination of block and basic programming it is easy to implement proportional (P), proportional + integral (PI), or proportional + integral + derivative (PID) control sequences.

These controllers may also be used to optimize the energy consumption of your facility by implementing various Energy Management strategies such as; demand limiting, duty cycling, outside air optimization, temperature setup/setback, optimum start/stop routines, etc.

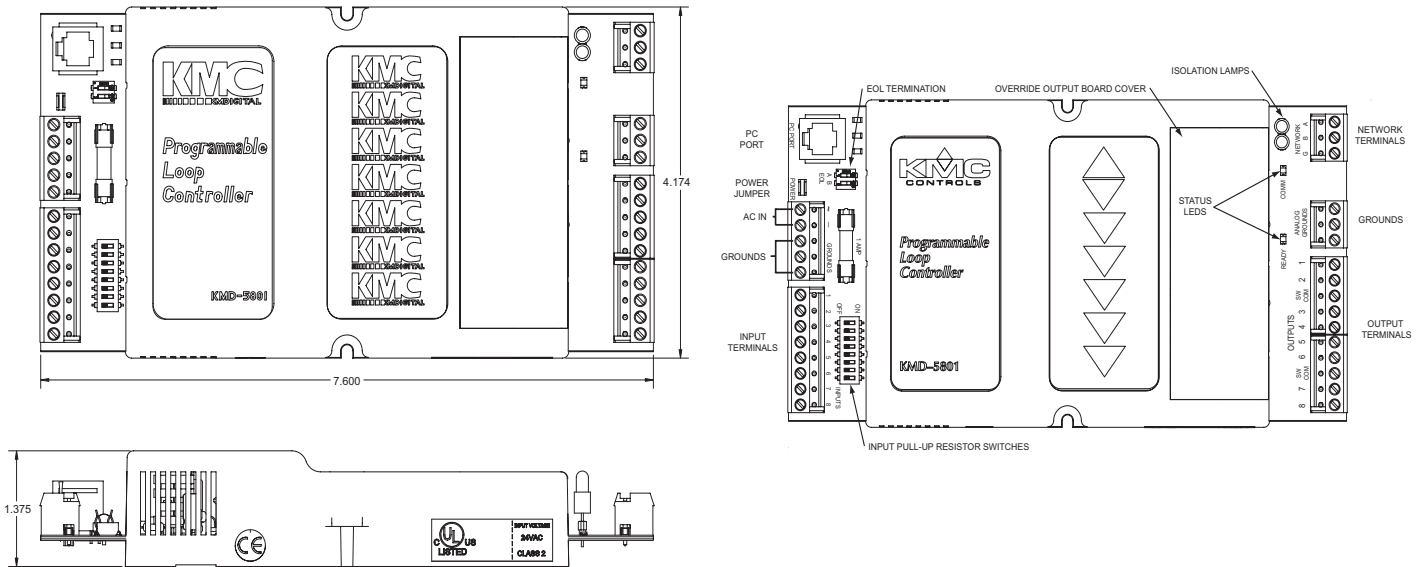


Features

The KMD-5801/5802 controllers feature:

- ◆ Stand-alone or networked peer-to-peer capabilities,
- ◆ 2-Way modem communications with KMD-5559,
- ◆ 8 Universal Inputs - software selectable as analog or digital with standard and custom ranges
- ◆ 8 Universal Outputs - software selectable for analog or digital with standard and custom ranges. Optional output cards for "Hand-Off Auto" w/ feedback with triac or relay output and DC analog output with override,
- ◆ 64 Variable points - software selectable as analog or digital with standard and custom ranges; may have manually set or program driven values,
- ◆ 124 Networked points in /32 networked points out
- ◆ NetSensor compatible
- ◆ Alarm buffering up to 10 alarms
- ◆ 8 PID loops
- 5 User definable programs
- 8 Trend Logs for data logging purposes, each supporting up to 4 analog, digital or virtual elements or points; when linked to the KMC Digital operating system these logs may be graphically displayed,
- 8 Runtime Logs with time/date stamp and cumulative runtime,
- 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,
- 2 Annual Routines for Holiday Schedules,
- 3 Sensor conversion tables for creating linear curves,
- ◆ 6 Access Levels with 27 individual user passwords,
- ◆ On-board 68 character full English alarm messages,
- ◆ On-board 68 character full English maintenance messages,
- ◆ Power-fail with auto restart capabilities,
- ◆ Programs and program parameters are stored in nonvolatile flash memory.

Details



Accessories/Repair Parts

Output override cards

- HPO-6701 Triac output
- HPO-6702 Short protected analog output
- HPO-6703 Relay, normally open contacts
- HPO-6704 4–20mA current loop
- HPO-6705 Relay, normally closed contacts

Covers

- HPO-6802 Output board cover with labels. Must be used to secure the HPO-6700 Series Output Boards.

Specifications

- Supply Voltage** 24 VAC -15% / +20%, 20 VA
- Communications** RS-485 @ 38,400 baud maximum with Belden 82760 or equivalent 18 AWG twisted shielded, 5.5Ω /1,000 ft. and ≤51 pf/ft (maximum 4,000 feet w/o repeater)
- Outputs** 8 universal
 - Analog 0 to 10 VDC, (see *Override Cards*)
 - Digital 0/12 VDC
 - Short Protection Yes
 - Wiring 12-22 AWG Cu

- Inputs** 8 universal w/10 bit A/D conversion
 - Analog 0 to 5 VDC, 4-20 mA
 - Digital On/Off (pulse counting up to 16 Hz)
 - Impedance 10KΩ
 - Overvoltage Protection Yes
 - Wiring 12-22 AWG Cu
- Case Material** Black ABS, UL Flame Class 94 HB
- Size** 7.6" x 4.17" x 1.4" (193.04 x 105.92 x 35.56 mm)
- Approvals** UL 916 Energy Management Equipment, FCC & CE
- Temperature Limits**
 - Operating 0°–120°F (–18°–49°C)
 - Shipping –40°–140°F (–40°–60°C)
 - Humidity 0–95% RH, non-condensing

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