KMC CONTROLS

KMD-5205
LanLite Controller

LanLite is a Tier 1, Ethernet-ready direct digital controller with the power to operate stand alone in small installations and the flexibility to expand existing KMC peer-to-peer networks. LanLite brings you all of the features of our popular 8X8 controllers and the communications power of our primary Tier 1 controller, the KMD-5210.

LANLite Highlights

- Enjoy easy installation and intuitive programming.
- Controls room temperature, humidity, fans, monitors refrigeration, lighting, and many other building automation functions.
- Stay apprised of alarms and take corrective action from wherever you are.
- Combine with other KMC controllers through Ethernet or a Tier 2 network.
- Gateway options available for BACnet 8802.3 and Modbus RTU.

Inputs

- 8 universal inputs each software selectable for analog or digital signals
- Standard and custom units of measure
- Pull-up resistors for switch contacts and other unpowered equipment. Select none, 1kΩ and 10kΩ with moveable jumper
- Removable screw terminal block, wire size 12–22 AWG
- 12–bit analog–to–digital conversion
- Pulse counting to 1000 Hz
- 0–5 volts DC analog input range

Outputs

- 8 universal outputs each software programmable for analog or digital signals
- Standard and custom units of measure
- Slots for KMC output override boards
- Removable screw terminal block, wire size 12–22 AWG
- 12–bit digital-to-analog conversion
- 0–10 volts DC analog output range
- 0–12 volts DC digital output range

Programmable features

- 10 Control Basic program areas
- Networked points in: 127 from Tier 1 controllers, 512 from Tier 2 controllers
- Networked points out: 64 to Tier 1 controllers, 64 to Tier 2 controllers
- 8 PID control loops
- 256 program variables software selectable as analog or digital with standard and custom units of measure
- Real time clock with power backup for 72 hours
- 5 user defined tables
- Programmable for automatic daylight saving time by date, day of month and time of day.

Custom graphics

- 32 system groups each of which can manage 64 points
- Animated and color graphics
- Requires WinControl XL Plus to view and edit graphics.

Schedules

◆ 8 weekly schedules each with 2 override days
◆ 4 annual schedules

Logging

◆ 16 trend logs each supporting up to 6 analog, digital or virtual elements or points. Trend logs displayed as text or graphics.
◆ 16 runtime logs with time stamp, date stamp and cumulative runtime

Security

◆ 6 operator access levels
◆ 256 operator passwords

Alarms

◆ Alarm buffering up to 16 alarms
◆ On-board 68 character alarm or maintenance text messages

Power loss

◆ Auto restart on power failure
◆ Real time clock with power backup for 72 hours

Memory

◆ 2 megabyte nonvolatile flash memory
◆ 2 megabyte ram with six-hour backup
◆ Programs and program parameters are stored in nonvolatile memory.

Communication ports

Ethernet   10Base-T Ethernet port for KMD Tier 1 or BACnet 8802.3

EIA–485   Connections to either KMC Tier 2 or Modus RTU controllers.
Connector type is removable screw terminal block.
Wire size 14–22 AWG

Serial   RS–232 connects directly to computer serial port or optional external modem for remote operation.
Connector type is 9-pin.

Supported protocols

KMDigital

All LANLite controllers support connections to controllers on KMDigital networks.

Tier 1   10Base-T Ethernet port supports connection to 31 KMC Tier 1 controllers.

Tier 2   Supports connections to 64 KMDigital controllers on the RS–485 port. KMD Tier 2 is not available on models with Modbus RTU protocol.

BACnet

The optional BACnet license adds BACnet functionality to the LANLite Controller.

◆ Connects to the BACnet internetwork as a BACnet Ethernet 8802.3 device.
◆ BACnet devices see LANLite inputs, outputs, and variables as BACnet inputs, outputs and value objects.
◆ Use Control Basic to read or write BACnet input, output or value objects from devices on the BACnet internetwork

Modbus RTU

Supports Modbus RTU protocol as a Modbus master. Not available on models with KMD Tier 2 protocol.

◆ Connects to Modbus slave controllers over the EIA-485 port.
◆ Half-duplex (2-wire) connection at 9600, 19,200 or 38,400 baud. Parity choices are even, odd or none.
◆ Modbus registers are mapped to KMD variables. One variable required for each read or write of a Modbus register.

Regulatory

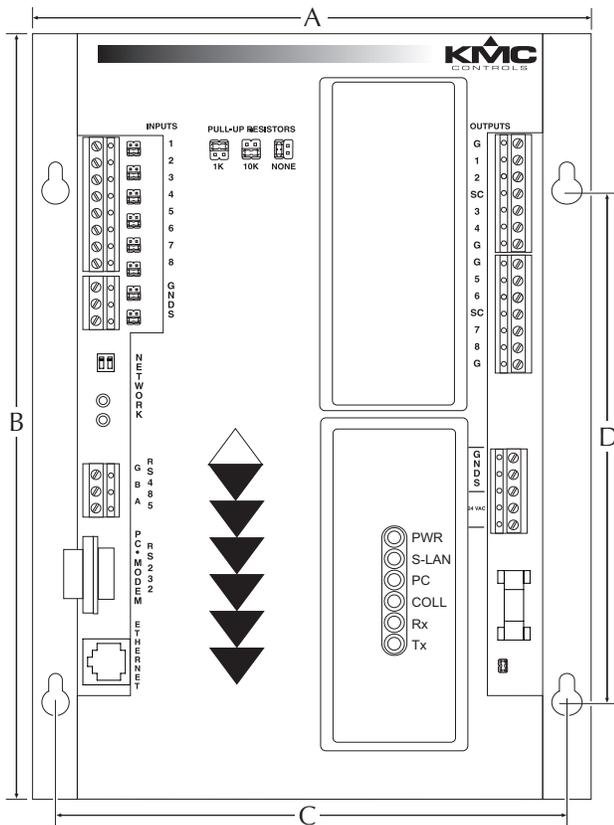◆ UL 916 Energy Management Equipment

◆ FCC Class B, Part 15, Subpart B

Installation

Supply voltage 24 volts AC, -15%, +20% 25 VA

Weight 16 ounces (454 grams)

Dimensions

A	B	C	D	Height (not shown)
6.5 in.	9.0 in.	6.0 in.	6.0 in.	0.98 in.
165 mm	229 mm	152 mm	152 mm	25 mm

Environmental limits

Operating 32 to 120° F (0 to 49° C)

Shipping –40 to 140° F (–40 to 60° C)

Humidity 0–95% relative humidity (non-condensing)

Compatibility

◆ For full feature compatibility, use WinControl XL Plus 2.1 or later.

◆ Compatible with Tier 1 controllers firmware build 2.0 or later.

Options and accessories

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
HPO-6802	Output board cover with labels. Must be used with all HPO-6700 series cards.

Power transformer

XEE-6111-40	Single-hub 120 volt transformer
XEE-6112-40	Dual-hub 120 volt transformer

Cables

KMD-5673	Six foot computer to controller cable
KMD-5674	Six foot modem to controller cable

Ordering information

When ordering a LanLite, select from the the following models and protocol options.

Model	Protocol			
	KMD Tier 1	KMD Tier 2	BACnet 8802.3	Modbus RTU
KMD-5205	◆	◆		
KMD-5205-005	◆			◆
KMD-5205-006	◆		◆	◆

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