

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, 1k $\Omega$  and 10k $\Omega$  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 Modbus 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

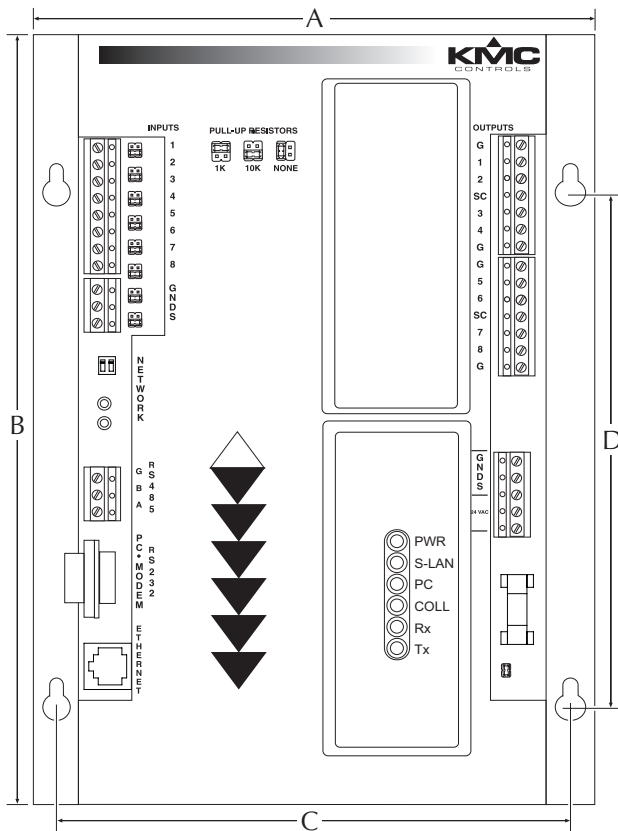
## Installation

**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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