

The KMD-5270 is a Tier 1, Ethernet-ready direct digital controller that offers the flexibility of an embedded HTTP server. WebLite can serve up graphics-based web pages to any Internet-ready device without special software. Use WebLite to operate stand-alone installations or make it a part of larger KMC peer-to-peer networks.

WebLite Highlights

- ◆ Enjoy easy installation and intuitive programming.
- ◆ A graphic-based, cost-effective internet solution.
- ◆ Controls room temperature, humidity, fans, monitors refrigeration, lighting, and many other building automation functions.
- ◆ Enables you to 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

- ◆ Requires WinControl XL Plus to view animation and edit graphics.
- ◆ 32 system groups each of which can manage 64 points.
- ◆ Eight background graphics (each graphic size limited to 50 KB) for use as browser accessible backgrounds in system groups.
- ◆ View system groups with standard internet browser.

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
RS-485	Connects 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.

Web pages and e-mail

- ◆ Use a standard internet browser to view and change the following: Inputs, Outputs, Variables, Controllers, System Groups, Trend Logs (requires Java VM), Run Time Logs, Weekly and Annual Schedules, Alarm Summary.
- ◆ Requires Microsoft Internet Explorer 5.0 or higher with service pack 2 or higher, Netscape 7.0 and Java VM enabled.
- ◆ Send e-mail text messages, input, output and trend log data. Requires access to SMTP e-mail server.

Supported protocols

KMDigital

All WebLite 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 WebLite Controller.

- ◆ Connects to the BACnet internetwork as a BACnet Ethernet 8802.3 device.
- ◆ BACnet devices see WebLite 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

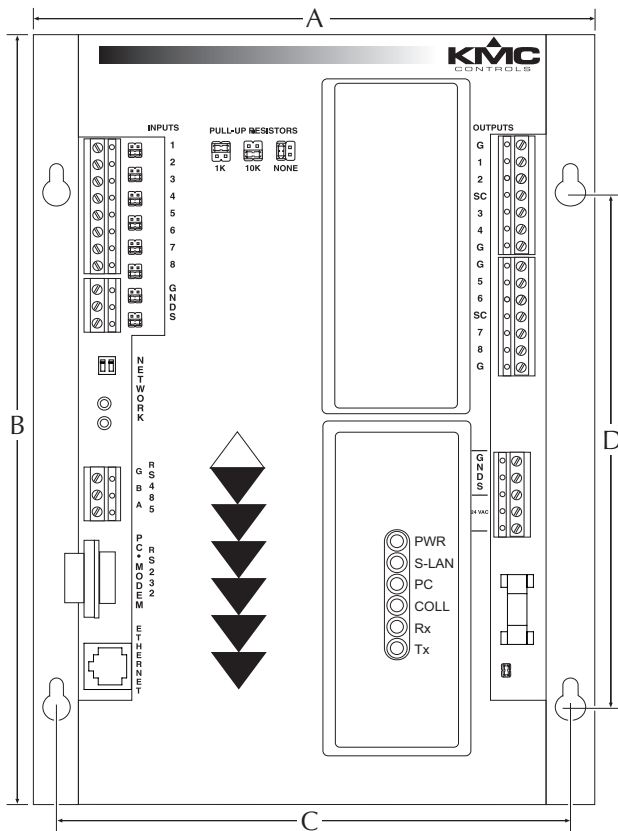
Installation

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 WebLite, select from the the following models and protocol options.

Model	Protocol			
	KMD Tier 1	KMD Tier 2	BACnet 8802.3	Modbus RTU
KMD-5270	◆	◆		
KMD-5270-001	◆	◆	◆	
KMD-5270-005	◆			◆
KMD-5270-006	◆		◆	◆

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