



# KMD-5210-001

## LAN Controller

### with BACnet 802.3 interface

The KMD-5210-001 LAN Controller builds on the solid foundation of our DDC line of products, adding the interoperability of the BACnet protocol. This LAN Controller was designed for Class 3 conformance level of the BACnet communications protocol for Ethernet 802.3 (ISO 8803-2).

LAN Controller is an intelligent, programmable direct digital controller and high-level LAN communications manager suitable for use in facilities management systems. LAN Controller operates as a stand-alone unit or as an integral part of a fully networked peer-to-peer digital system.

You can also purchase LAN Controller in convenient, factory-assembled panel systems with flexible input and output configurations.

#### LAN Controller Highlights:

- ◆ Easy to install, simple to configure, and intuitive to program.
- ◆ Easily networked with other KMC controllers through Ethernet or EIA-485 connections.
- ◆ Provides easy control and monitoring of Facilities Management Systems from any location.
- ◆ View and change input, output and value objects within BACnet controllers.

#### Inputs/Outputs

Control up to 128 inputs/outputs directly using up to eight KMD-5220 Input Modules or KMD-5221 Output Modules. Each provides for 16 inputs or outputs.

- ◆ 128 universal inputs/outputs; software selectable as analog or digital signals
- ◆ Eight, 16-pin ribbon cable connectors
- ◆ Standard or custom units of measure
- ◆ 16-bit analog-to-digital conversion on inputs
- ◆ 12-bit digital to analog conversion on outputs



#### Programmable Feature

- ◆ 128 user-definable 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
- ◆ 64 PID Control Loops
- ◆ Five sensor conversion tables for creating linear graphs
- ◆ 256 Variable points; software selectable as analog or digital w/standard or custom ranges using manually set or program driven values
- ◆ Programmable for automatic daylight saving time by date, day of month and time of day.

#### Custom Graphics

- ◆ 64 System Groups for organizing 160 controller selected points or elements into real-time or color graphic displays
- ◆ Use WinControl XL Plus to view and edit graphics

#### Schedules

- ◆ 32 weekly schedules with overrides
- ◆ 16 annual schedules

## Logging

- ◆ 96 Trend logs for data logging; each supports up to 6 analog, digital, or virtual elements or points (graphical display capabilities when linked to a KMC Digital Operating System)
- ◆ 128 Runtime Logs with time/date stamp and cumulative runtime functions

## Alarms

- ◆ Buffering for up to 128 alarms and 50 messages
- ◆ On-board 68-character alarm or maintenance messages

## Security

- ◆ 6 operator access levels
- ◆ 256 user passwords

## Power Loss

- ◆ Power-fail with auto restart capabilities

## Memory

- ◆ 2 MB nonvolatile flash memory; 2 MB RAM
- ◆ Programs and parameters are stored in nonvolatile memory
- ◆ RAM automatically backed up to flash memory every 6 hours

## Communications

- ◆ 10baseT Ethernet port supports up to 31 KMC Tier 1 controllers and BACnet 8802-3
- ◆ BACnet support using Ethernet port
- ◆ Two EIA-485 ports for connecting Tier 2 networks; 124 connections per port
- ◆ EIA-232 connectors for direct connection to computer serial ports
- ◆ DB-9 serial connector for direct connection to an external modem

## Options and Accessories

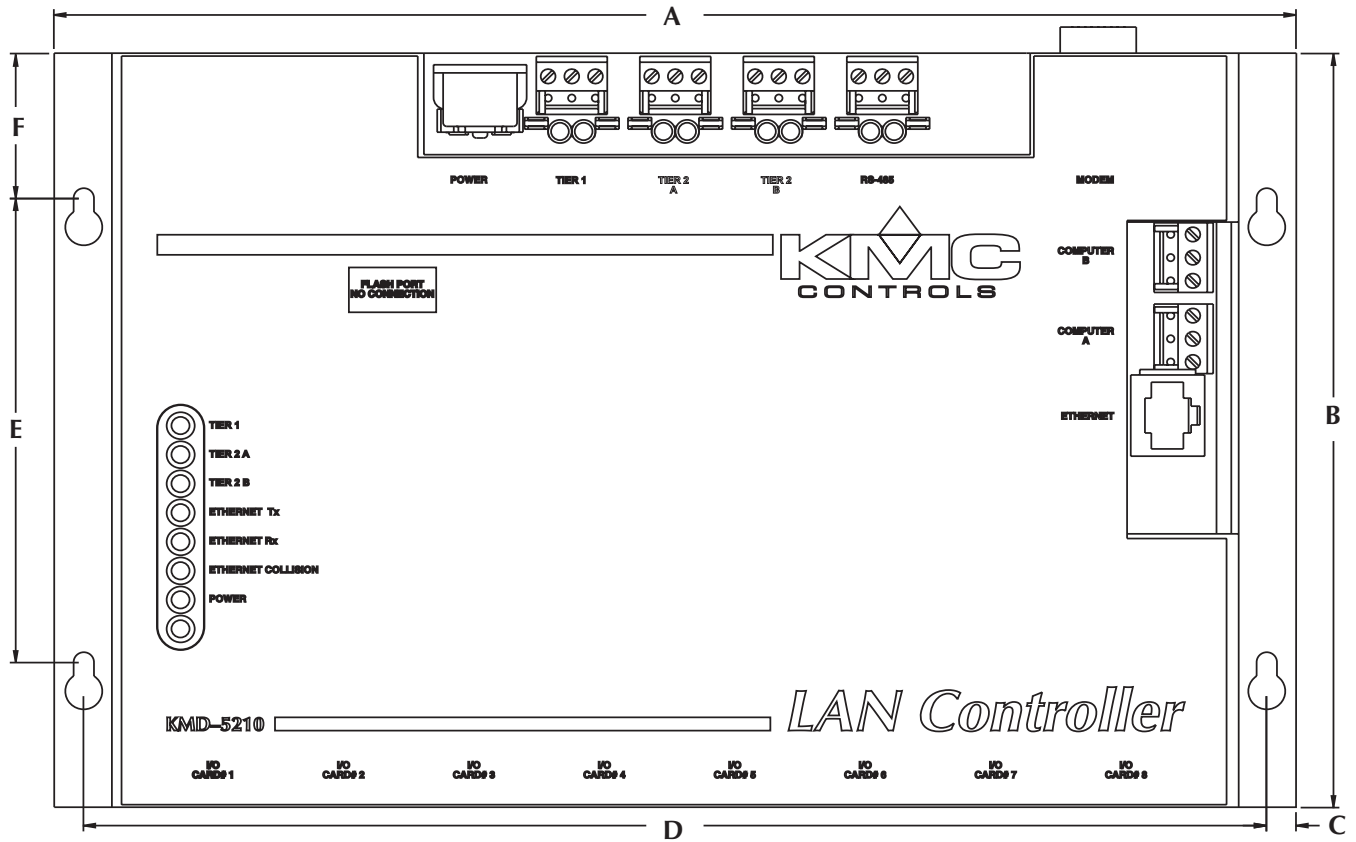
- ◆ KMD-5220 Input Module
- ◆ KMD-5221 Output Module
- ◆ KMD-5660 6-inch ribbon cable, input/output module to controller
- ◆ KMD-5668 9-inch ribbon cable, input/output module to controller
- ◆ KMD-5661 14-inch ribbon cable, input/output module to controller
- ◆ KMD-5662 19-inch ribbon cable, input/output module to controller
- ◆ KMD-5663 24-inch ribbon cable, input/output module to controller
- ◆ KMD-5672 PC to Controller cable
- ◆ KMD-5563 International-ready 120/240 VAC, 1.35 ampere power supply
- ◆ XEE-6112-100 100 VA Transformer, 24-volt
- ◆ HCO-1035 Energy Management Equipment Enclosure 20 x 24 x 6 inches (508 x 610 x 152 mm)
- ◆ HCO-1036 Energy Management Equipment Enclosure 24 x 36 x 6 inches (610 x 914 x 152 mm)
- ◆ KMD-5230-001 KMD-5210-001 and KMD-5563 mounted in an HCO-1036 enclosure. Listed as UL 916 Enclosed Energy Management Equipment and UL 2017 Signal System Equipment

## BACnet interface

- ◆ Connects to a BACnet internetwork with BACnet 8802.3 (Ethernet)
- ◆ Inputs, outputs and variables within the LAN Controller appear as input, output and value objects to BACnet device.
- ◆ Control Basic includes statements to read and write objects in BACnet devices.



## Dimensions



A	B	C	D	E	F	Height (not shown)
10.50 in.	6.50 in.	0.25 in.	10.00	4.00 in.	1.25 in.	0.98 in.
267 mm	165 mm	6 mm	254 mm	102 mm	32 mm	25 mm

## Environmental Limits

Operating Temperature	32 to 120° F (0 to 49° C)
Shipping Temperature	-40 to 140° F (-40 to 60° C)
Humidity	0-95% RH, non condensing

## Installation

Dimensions	10.50 x 6.50 x .98 inches (267 x 165 x 25 mm)
Weight	1.8 lb (0.8 kg)
Supply Voltage	Requires KMD-5563 international-ready 120/240, 1.35 ampere power supply
Regulatory	UL 916 Energy Management Equipment listed CE compliant FCC Class B, Part 15, Subpart B SASO PCP Registration KSA R-103263

## Ordering information

Description	Model number
KMDigital BACnet Ethernet 8802.3 LAN Controller, without power supply	KMD-5210-001
International-ready 120/240 VAC, 1.35 ampere power supply	KMD-5563

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Specifications and design subject to change without notice.