

building your comfort zone

The logo for KMC Controls features the letters 'KMC' in a bold, black, sans-serif font. The letter 'M' is stylized with a blue triangle pointing upwards and a yellow triangle pointing downwards. Below 'KMC' is the word 'CONTROLS' in a smaller, black, sans-serif font. The background is a blue-tinted collage of architectural blueprints, a compass rose, and binary code.

KMC

CONTROLS

product overview



building your
comfort zone



KMC Controls began as Kreuter Manufacturing Company nearly 35 years ago. Then, as now, our commitment to you can be summed up in the phrase, "building your comfort zone."

Product development at KMC follows a disciplined and market-centric approach. A process known as Product and Cycle-Time Excellence, or PACE, governs how products are conceived, designed, produced and supported.

Our engineering legacy began with company founder Ken Kreuter, who obtained over 40 patents during his years in the controls industry. Today, the legacy continues with professional engineers designing products and solutions to meet the challenges of today and the expectations of tomorrow.

While conceived in engineering, our products are built in a state-of-the-art production facility. Our ISO 9001 registered quality system ensures repeatable excellence.

We distinguish ourselves among all suppliers of controls equipment by being

the only privately held manufacturer of a full line of HVAC and building automation products. Our product line consists of digital systems, employing proprietary and open standard communication protocols, and of electronic and pneumatic controls, actuators and valves.

It is of no surprise then, that KMC products and digital systems find a home in today's most sophisticated facilities from hospitals and office buildings to schools and hotels.

Our solutions and products reach the world through a distribution partner network of authorized installing contractors (or AICs) as well as wholesalers. Our AIC partner

organizations come staffed with the right balance of sales personnel, design engineers, and technicians. As a result, they provide expert digital system design, cost-effective installation, and exceptional service. You can

be confident that our authorized representatives have the skills, experience, and integrity to bring our solutions to your facility.



We remain committed to building your comfort zone. Through excellence in product development, excellence in production, excellence in distribution, and excellence in support, we deliver pioneering and market-driven solutions for HVAC controls and building management.

Your comfort has become our passion. Now, let us build your comfort zone.

Product Families

We pioneered VAV products with an engineering legacy that has since endured for 35 years. Today, we apply our design skills and manufacturing strengths to deliver a full line of HVAC components as well as initiatives in building automation.

HVAC Components

From analog electronic to patented designs in pneumatic, KMC offers you a comprehensive product line. We produce actuators, valves, control devices, and all the accessories your project requires. Best of all, you can find these parts through your local HVAC wholesaler.

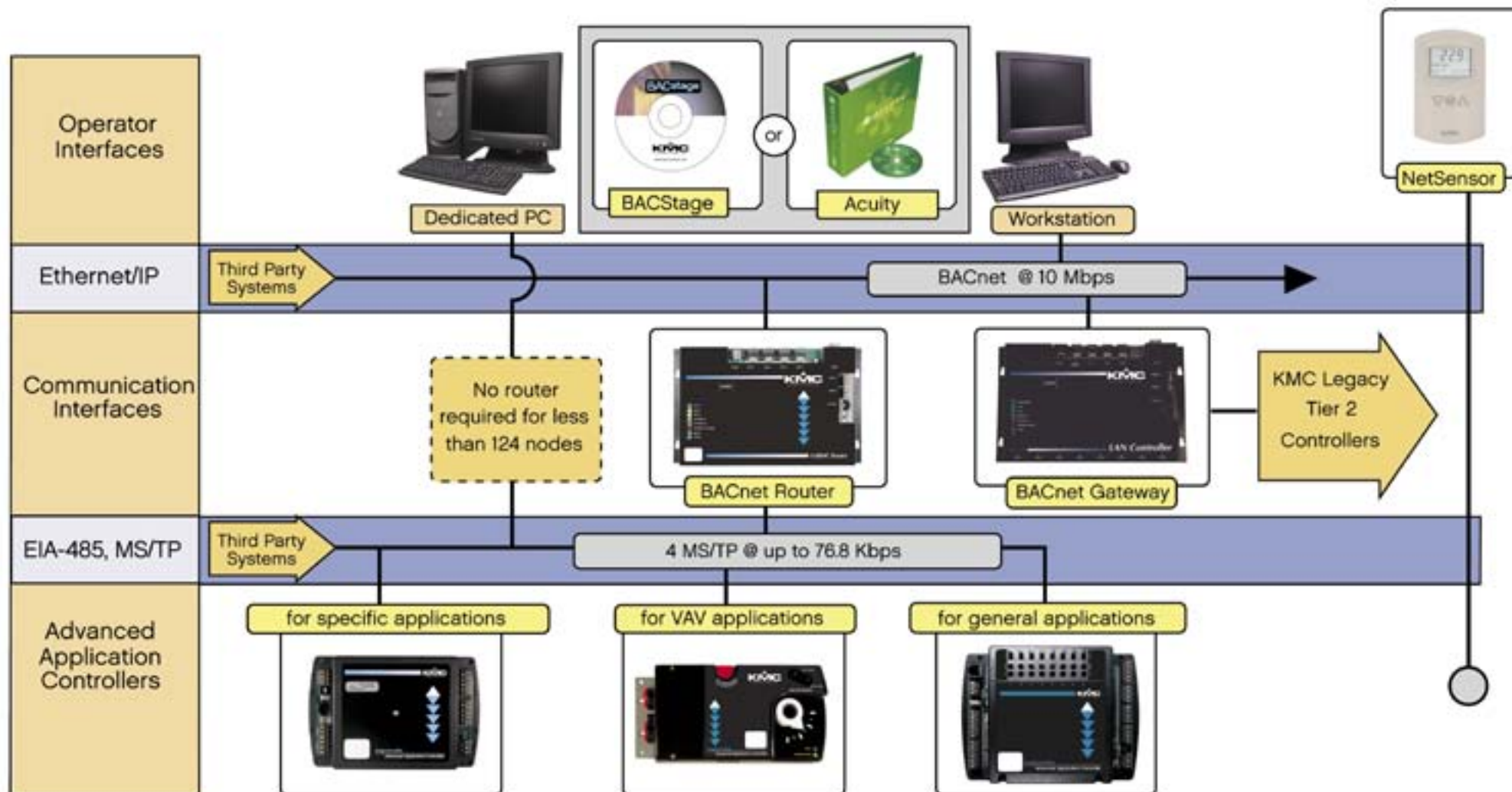
Building Automation

Our authorized representatives have delivered our proven line of DDC products for many years. The standard KMC digital product line includes intuitive building automation software, fully programmable Tier 1 and Tier 2 controllers, networked thermostats, and network accessories.

To meet the demand for open and interoperable systems, we also offer BACnet products. From powerful operator workstation software to advanced application controllers, these scalable systems offer building owners and management personnel maximum flexibility in implementation.



BACnet Architecture



Notes:

- BAC-5050 supports four MS/TP networks, four BACnet IP subnetworks and one BACnet 8802-3 network
- MS/TP units can operate stand-alone or may be networked (up to 124 units)

KMC BACnet Products

Operator Workstations

BACstage™

BACstage is the only tool you need to program our BACnet controllers for a building automation system. Use BACstage to set addresses, configure objects, write Control Basic programs and build graphical user interfaces.

Acuity™

Acuity is an enterprise-ready suite of powerful Web-enabled building automation software. Superior graphics and a navigational template make Acuity unsurpassed in gathering and viewing information. You have access from anywhere in the world using a standard web browser, without special software or dedicated workstations.

Sensors

KMD-1161 and KMD-1181 NetSensors® are available as single and dual function (temperature or temperature and humidity) wall-mounted, intelligent interface devices for use in a KMC BACnet system. NetSensors provide nine function keys, seven of which are user programmable, in a simple and functional design. Each NetSensor connects directly to an associated BACnet controller.

Gateways

The KMD-5210-001 and 002 add the interoperability of the BACnet protocol to the solid foundation of our DDC line of products. The KMD-5210-001 is designed for Class 3 conformance level of the BACnet communications protocol for Ethernet 802.3 (ISO 8803-2). The KMD-5210-002 is designed for Class 3 conformance level of the BACnet communications protocol for MSTP.

Router

Our FullBAC™ router is a multi-port BACnet router. It routes BACnet building automation data between BACnet/IP, BACnet Ethernet and MS/TP networks. The BAC-5050 conforms to ANSI/ASHARE Standard 135-2001.

Advanced Application Controllers

For VAV applications

The BACnet VAV advanced application controllers are native BACnet, fully programmable controllers designed for VAV applications. Use these versatile controllers in stand-alone environments or networked to other BACnet devices. As part of a complete facilities management system, the VAV controllers provide precise monitoring and control of airflow and room temperature.

For specific tasks

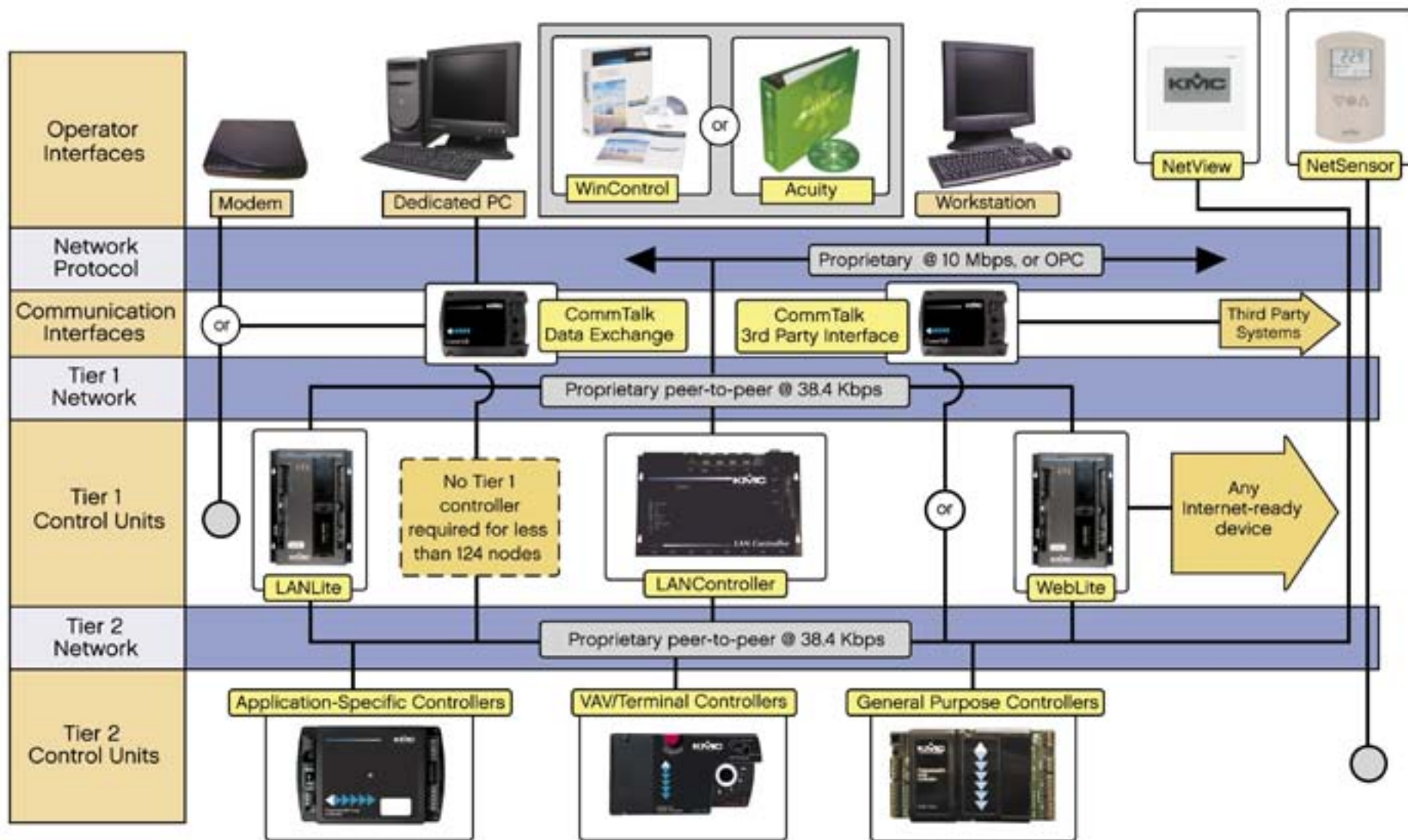
The BACnet job-specific Advanced Application Controllers are native BACnet, fully programmable controllers designed for a variety of applications. Use these versatile controllers in stand-alone environments or networked to other BACnet devices. As part of a complete facilities management system, these controllers provide precise monitoring and control for roof top, air handling, and heat pump applications.

For general use

These Advanced Application Controllers are native BACnet, fully programmable direct digital controllers for general applications. Use these versatile fully programmable general purpose controllers in stand-alone environments or networked to other BACnet devices. As part of a complete facilities management system, the KMC BACnet controllers provide precise monitoring and control of connected points.

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Proprietary Architecture



Notes:

- OPC: OLE (Object Linking and Embedding) Process Control
- LAN Controller: two Tier 2 connections, each supporting up to 124 Tier 2 units; 128 universal inputs or outputs
- WebLite and LANLite: one Tier 2 connection supporting up to 32 Tier 2 units; 8 inputs, 8 outputs
- Tier 2 control units can operate stand-alone or may be networked (up to 124 units), each connecting to only one Tier 1 unit

KMC Proprietary Products

Operator Interfaces

WinControl® XL Plus

WinControl XL Plus is our deluxe facilities management software for programming and monitoring KMC digital networks. This versatile and easy-to-use control program greatly simplifies building automation processes. Operators have complete control of temperature, humidity, overrides, status, alarms and logs.

Acuity™

Working with either KMC's BACnet or Proprietary digital systems, Acuity is an enterprise-ready suite of powerful Web-enabled building automation software solutions. Superior graphics and a navigational template make Acuity unsurpassed in gathering and viewing information. You will have access from anywhere in the world using a standard web browser. No need for special software or dedicated workstations.

Sensors

NetView®

NetView is an operator interface designed for viewing and controlling a KMC Tier 2 (sub LAN) network. The LCD touch screen provides crisp, easy-to-view access to a direct digital network without a computer or special programming.

NetSensor®

NetSensor is available as single and dual function (temperature or temperature and humidity) wall-mounted, intelligent interface device for use in a KMC Direct Digital Controls (DDC) System. NetSensors provides 9 function keys, seven of which are user programmable, in a simple and functional design.

Communication Interfaces

CommTalk Data Exchange Modules are microprocessor-based, programmable, communications controllers. A CommTalk manages all communications between the KMC Digital Sub-LAN and an external reporting device such as a modem-to-modem/PC, modem-to-pager service, or a PC. CommTalk Protocol Interfaces provide a standard equipment interface between KMC networks and third-party equipment interfaces.

Tier 1 Control Units

KMD LAN Controllers

KMD LAN Controllers are intelligent, programmable direct digital controllers and high-level LAN communications managers suitable for use in facilities management systems. LAN Controllers operate as stand-alone units or as integral parts of a fully networked peer-to-peer digital system.

LANLite™

LANLite is a Tier 1, digital controller with the power to manage small installations and the flexibility to expand into larger 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 LAN Controller.

WebLite™

WebLite 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.

Tier 2 Control Units

Application Specific

These controllers are intelligent, programmable, 4 input/4 output direct digital controllers. Each controller is capable of independent, stand-alone operation, or may be networked with other controllers. Models include auto time reset after power restoration and factory programmed control sequences with descriptors that are fully field programmable.

VAV/Terminal Controllers

These direct digital controllers, integrated into an actuator, are designed primarily for VAV terminal units. The controllers operate independently in a stand-alone mode or jointly in a peer-to-peer network, sharing system data and/or programs. Standard VAV control sequences have been incorporated to provide pressure-independent control of a single duct VAV unit.

General Purpose

These 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), these controllers provide precise monitoring and control of connected points.

The demands placed on today's facilities have never been greater. Modern buildings must be flexible, intelligent, and reach new levels of energy efficiency. They require attentive cost-control practices in all stages of initial construction and modernization, as well as in daily operation.

Now, more than ever, facility professionals are challenged to keep pace with emerging technologies in order to exceed their customers' expectations.

We can help.

For 35 years, KMC Controls and our distribution partners have joined forces across the globe to create comfortable, safe, and efficient environments. Our intellectual property was grounded in pneumatic design but continues today in open architecture and proprietary automation systems for today's sophisticated facilities.

Now, more than ever, we are committed to "building your comfort zone."



HEATING, AIRCONDITIONING & REFRIGERATION DISTRIBUTORS INTERNATIONAL



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