DESCRIPTION

TotalControl Design Studio is an Advanced Operator Workstation for configuring a building automation system. Built on XML and the Microsoft® .NET Framework, this program is just one part of a powerful suite of software tools from KMC Controls.

With TotalControl Design Studio you can:

• Build operator graphic pages and then publish them for Internet browser access
• View or change controller operation
• Manage alarms and notifications
• Set up and view historical trend data
• Set schedules
• Edit Control Basic programs

Create custom graphic pages

Design Studio includes an extensive graphics library of HVAC components with which you can build operator interface pages and then publish them for Internet browser access.

• Add motion and proportional positioning displays with animation files
• Control the system with interactive controls
• Animated components display boiler operation, fan motion, damper position, gas heat, and electric reheat
• Display static components such as arrows, piping, duct work, and sensors
• Display point values with dynamic text and gauges
• Import standard graphic formats to display site and floor plans
• Add links from site and floor plans to each piece of equipment

VERSION COMPATIBILITY

TotalControl version 4.0 released in January 2017 includes only the BACnet models. This version is not compatible with earlier versions of TotalControl that include the KMD, OPC, or Protocol Integration Gateway modules. If any of these modules are part of an existing building automation system or required for a new installation, contact KMC Controls Customer Service before ordering.
Configure trends
Configure TotalControl to collect trend data from either controller based trends or by direct polling of a point and storing the data in the SQL database. TotalControl supports the following types of trends.

• Controller trends
• Database trends
• PC trends

Scheduling
Schedule holidays, maintenance, and special days for up to a full year
• Schedule recurring daily activities with weekly schedules
• Use annual schedules to override weekly schedules during holidays and special events

Alarm management
Use Design Studio to set up alarms to notify key operators of critical events.

• Configure for viewing and management from a browser.
• View and acknowledge alarms.
• Set up custom e-mail notification for key operators. Notification includes custom messages in e-mail text.

Security
TotalControl security locks out tampering and still allows authorized operators to make changes.

Design Studio Alarm Manager

Security Manager

Configure trends

A controller trend display
Site back up and restore

With TotalControl Design Studio you can save a backup file of the entire site, archive operational data, or restore data to the site database.

- Back up the entire site including all configuration settings and web pages.
- During installation, use a backup file to transfer configuration setting and graphic pages from another site.
- Set up scheduled backup processes to periodically archive the information in the site SQL database.
- Backup files compatible with KMC Connect files.

Supported BACnet protocols

Design Studio—through a connection to TotalControl Building Services—supports the configuration of controllers operating on the BACnet protocols for building automation systems.

- IP
- 8802.3
- Foreign Device
- BBMD

Standard Microsoft Windows interface

Quickly locate controllers, objects, and points from a list of controllers and devices.

Block or line programming

With TotalControl you have the option to use the Block Editor for a graphical programming interface or the traditional Line Editor to write Control Basic programs.

**Block programming** Block programming is fully supported in BAC-5901, BAC-9001, BAC-9021, BAC-9301, and BAC-9311 Conquest controllers.

- Simple, graphical drag-and-drop programming
- Built in macros for common functions such as reset and short cycling
- Global user defined macros
- Stored in the controller

**Line programming** The Line Editor supports all versions of field programmable BACnet controllers from KMC Controls.

- Traditional programming with Control Basic, a language built on ANSI BASIC
- Color-coded text
- Automatic keyword display
- Full find and replace functions

Objects and points in the Network Manager list

Block Editor

Line Editor
**Computer system requirements**

TotalControl Design Studio runs only on the following operating systems:

- Windows 7 Professional
- Windows 7 Ultimate
- Windows 8 and 8.1 Professional
- Windows 10 Professional
- Windows Server 2008 R2
- Windows Server 2012 R2

TotalControl Building Services will run on 32-bit or 64-bit computers or versions of Windows.

The complete list of computer requirements are listed in the document *Installing TotalControl* available on our web site.

**ORDERING INFORMATION**

A job site name is required to place an order. All software is distributed through our web site at partners.kmccontrols.com.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalControl Design Studio, HW-KEY included</td>
<td>TC-STUDIO</td>
</tr>
<tr>
<td>TotalControl Design Studio. Additional copy when purchased with TC-STUDIO, HW-KEY included.</td>
<td>TC-STUDIO-A</td>
</tr>
<tr>
<td>KMC Controls USB Hardware License Key</td>
<td>HW-KEY</td>
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**SUPPORT**

Additional resources for installation, configuration, application, operation, programming, upgrading, and much more are available on the web at www.kmccontrols.com. To see all available files, log-in to the KMC Partners site.