

## M-Tool

### Description

M-Tool transforms the way you create control strategies by providing a suite of tools with an intuitive and efficient work environment.

M-Tool is an easy-to-use programming tool for application engineers and facility operators.

M-Tool consists of two major groups of tools: System Tools and Configuration Tools. Both of these groups can be installed independently to support different types of control products.

System Tools includes Project Builder, Site Book, M-Pro, and Comm Pro. Project Builder develops a control system using N30 Series supervisory controllers. Site Book defines and saves site information for N30 networks.

M-Pro creates and downloads applications for the VMA1200 controller. M-Tool includes the Variable Air Volume Modular Assembly (VMA) Balancing Tool used with a Palm™ compatible handheld device. Comm Pro commissions LONMARK® compliant Johnson Controls® application specific devices.

Configuration Tools includes HVAC PRO, ZT PRO, GX-9100 Configuration Tool, DX Commissioning, and XTM Configurator.

HVAC PRO creates control strategies for the Air Handling Unit (AHU) controller, Unitary (UNT) controller, Variable Air Volume (VAV) controller, Variable Air Volume Modular Assembly (VMA1400), Phoenix Fume Hood (PHX) controller, N2 Dialer Module (NDM), and Terminal Controller (TC) devices. It provides commissioning tools, data graphing, and loop tuning.

ZT PRO programs the Zone Terminal Unit (ZTU100). GX-9100 Configuration Tool programs the DX-91xx and DX-92xx controllers, the DT-9100 LCD Display, and the XT-9100 and XTM905 Point Expansion Modules. DX Commissioning supports DX-91xx/92xx controllers. XTM Configurator programs the XTM105/XPx Point Expansion Modules.

M-Tool comes packaged with the System Configuration Tool/Application and Data Server (SCT/ADS).

For important product information, refer to the *M-Tool Product Bulletin (LIT-693050)*.

### Features

- system configuration and project management — defines a network of controllers and the control points, schedules, calendars, interlock, applications, and others
- commissioning tools — allow fast adjustment and commissioning of systems
- remote access — allows quick access to systems over telephone lines or Wide Area Networks (WANs)
- question/answer style application development — provides simple and consistent definition of tested control strategies
- graphical program development — allows fully flexible programming for custom applications



M-Tool CD

### Selection Chart

| Code Number       | Description                                                                    |
|-------------------|--------------------------------------------------------------------------------|
| <b>MW-MTOOL-0</b> | M-Tool (Includes M-Tool Computer-Based Training)                               |
| <b>MW-MTOOL-6</b> | M-Tool Upgrade from previous release (Includes M-Tool Computer-Based Training) |
| <b>MW-MTCBT-0</b> | M-Tool Computer-Based Training package                                         |

### Technical Specifications

| M-Tool                               |                                                                                                                                                                                                                                       |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recommended Computer Platform</b> | 500 MHz Pentium® III processor for Microsoft® Windows® 2000 Professional Operating System (OS); 2.6 GHz Pentium 4 processor for Windows XP Professional OS, particularly if also running an M-Series Workstation on the same computer |
| <b>Random Access Memory (RAM)</b>    | 256 MB of RAM recommended for Windows 2000 Professional OS and Windows XP Professional OS (128 MB RAM minimum for Windows 2000 Professional OS and Windows XP Professional OS)                                                        |
| <b>Hard Disk</b>                     | 40 gigabyte (GB) hard disk. If also running an M-Series Workstation on the same computer, we recommend that you maintain 600 MB of free space for virtual memory.                                                                     |
| <b>CD-ROM</b>                        | 4X or higher speed                                                                                                                                                                                                                    |
| <b>Monitor</b>                       | 17-inch monitor with 1024 x 768 resolution                                                                                                                                                                                            |
| <b>Video Memory</b>                  | 2 MB of VRAM                                                                                                                                                                                                                          |
| <b>Operating System</b>              | Windows 2000 Professional OS with Service Pack 4 or Windows XP Professional OS with Service Pack 1                                                                                                                                    |
| <b>Hardware Options</b>              | Windows OS supported printer                                                                                                                                                                                                          |