

# TECHNICAL DATA

## XM SERIAL CONFIGURATION UTILITY

### PORT TO PORT CONNECTIVITY

The Allen-Bradley XM® series from Rockwell Automation is the world's first machine monitoring and protection system designed as a distributed network of modules deployed on an open standard industrial bus.

The XM Serial Configuration Utility is an easy to use Windows® application for installing and configuring the XM series modules.

The Serial Configuration Utility can execute "on line" or "stand alone". When executed in "stand alone" mode the tool may be used to read, modify and write configurations stored on disk. When executed "on line" the tool can upload configurations from a module, download configurations, and firmware updates, to a module and view data from the module.

Connection to an XM module is via the module's serial interface using either the mini-connector located on top of the module or, for modules that include it, the three-wire connections on the module's terminal base. A convenient 2 meter interface cable is available, that provides a standard PC type 9-pin D-subminiature connector on one end and a 5-pin XM serial port mini-plug on the other end. The Serial Configuration Utility is packaged with every XM Measurement and Relay module sold.



### SPECIFICATIONS

#### Operating Systems

Microsoft Windows: NT, 2000, XP

#### Computer Requirements

PC with an available RS-232 serial communications port.

Recommended:

400 MHz CPU, 128+ MB RAM, 10MB free disk space

*Note: Almost any up to date PC will suffice for configuring modules. The recommended configuration is suggested for systems that will be heavily used or that will be used to view live data.*

The Serial Configuration Utility includes the ability to read and write text format configuration files. Configuration files may be saved, updated and read. The files, while normal text format, are named with file extensions unique to each module (\*.120, \*.320, etc.).

#### Security

Because the Serial Configuration Utility communicates via a common serial interface access can only be achieved locally. This allows for the simplest of security precautions – restricted access to the cabinet.

However, for added security, the Serial Configuration Utility includes a password facility that precludes unauthorized use.

## Auto Save Configuration

When configurations are sent to the module they only overwrite the "active" configuration. Enabling Auto Save Configuration insures that the updated "active" configuration is also copied to nonvolatile memory.

When a module powers up, if a configuration is stored in its nonvolatile memory, that configuration will be loaded and the module will go online. Otherwise the module will power up and wait, in program mode, to be configured via Automatic Device Replacement (ADR) or manually by a user.

## DeviceNet Address Management

The tool is used for setting the DeviceNet address for each module. Available addresses are from 0 to 62 with ADR. When ADR is not required available addresses are 0 to 63.

## Alarm and Relay Management

The Tool provides a clear overview of the status of all alarms and relays and a simple button press capability to reset any (latched) relay. The hardware reset button on XM Measurement and Relay Modules resets ALL latched relays, whose condition has cleared. The Tool allows for discrete relay management.

## Supported XM Modules

Model	Description
XM-120	Standard Vibration
XM-120E	Eccentricity
XM-121	Low Frequency Vibration
XM-122	gSE Vibration
XM-123	Aeroderivative
XM-220	Dual Speed
XM-320	Position
XM-360	Process
XM-361	Universal Temperature
XM-362	Thermocouple Temperature
XM-440	Master Relay

*Note: XM gateway modules are configured using appropriate network tools*

## ORDERING INFORMATION

*The Serial Configuration Utility is not available for sale. It is included with every XM measurement and relay module sold. However, you must purchase a Serial Communications Cable.*

Catalog Number	Description
1440-SCDB9FXM2	XM Serial Communications Cable

[www.rockwellautomation.com](http://www.rockwellautomation.com)

### Power, Control and Information Solutions

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Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

## Firmware Update

The tool allows for updating module firmware.

## Max Speed Management

All XM modules that include a tachometer (XM-12x and XM-220) retain the value of the highest speed observed since the module was started or the Max Speed was reset. This function allows for resetting the "max speed". When pressed the Max Speed value will be reset to the current speed.

## View Data

Because configuring complex dynamic measurement systems frequently requires review of the measurements to ensure their correct configuration, the serial configuration utility includes a powerful data viewing capability.

*The following plots are provided:*

Plot	Module	Description
Spectra	XM-120 XM121 XM-121A XM-122	Single or dual channel continuously updated displays
Time Waveform	XM-120 XM-120E XM-121 XM-121A XM-122	Single or dual channel continuously updated displays
Trend	XM-120 XM121 XM-122	Dual channel, continuously updating Overall Level trend plots
Level	All	Every discrete value measured by the module in a simple continuously updating table format.
Alarm & Relay Status	All	The continuously updated status of each of the modules alarms and relays.