



# Ethernet I/O: Software Support

## AMXX Series ActiveX / .NET Controls for Modbus I/O



Microsoft  
**Visual Basic**



Microsoft  
**Visual C++**



Easy PC-based communication to Acromag BusWorks and EtherStax I/O ♦ Modbus/TCP or Modbus/RTU

### Description

Acromag's AMXX Series software controls provide a fast, easy way to communicate with any Modbus/RTU or Modbus/TCP slave devices connected to your PC's serial or network ports. Within minutes, your Visual Basic, Visual C, .NET, Excel, or other compatible applications will be talking Modbus protocol.

#### AMRX Modbus/RTU ActiveX Control

The AMRX package is an easy to use ActiveX control that provides a convenient way to communicate to Modbus/RTU slave devices. It also includes a timer for polled data acquisition and a floating point conversion ActiveX control.

#### AMRN Modbus/RTU Forms Control

AMRN is a simple Windows Forms Control that provides a quick way to communicate with Modbus/RTU slave devices connected to your PC's serial port.

#### AMTX Modbus/TCP ActiveX Control

AMTX is an easy to use ActiveX control that simplifies communication with Modbus/TCP slave devices connected to your PC's wired or wireless network.

#### AMTN Modbus/TCP Forms Control

AMTN is an easy to use Windows Forms Control for Modbus/TCP to communication with slave devices connected to your PC's Ethernet port. It can be used on a form or optionally without a form.

#### Demonstration Programs

Demonstration versions are available. The demos are complete operating ActiveX controls that have a time limit. After 60-90 minutes, communication functions will be disabled. Re-starting the application will initiate another functional demonstration period.

### Key Features & Benefits

- Any container application that can embed ActiveX controls can use the AMXX software packages
- At design time, you can access your Modbus device from the software's test property page
- Property page device access makes start-up and troubleshooting a snap – all without writing a single line of code
- Talking to a Modbus slave is as simple as calling a function with the necessary arguments
- The software automatically builds the command, appends a CRC, sends the request over the network, and validates the response
- Your program just reads and writes simple 16-bit data values
- ActiveX controls include a help file and examples for Excel, Visual Basic, C++
- .NET controls include a help file and examples for Visual Basic, C#, and Managed C++

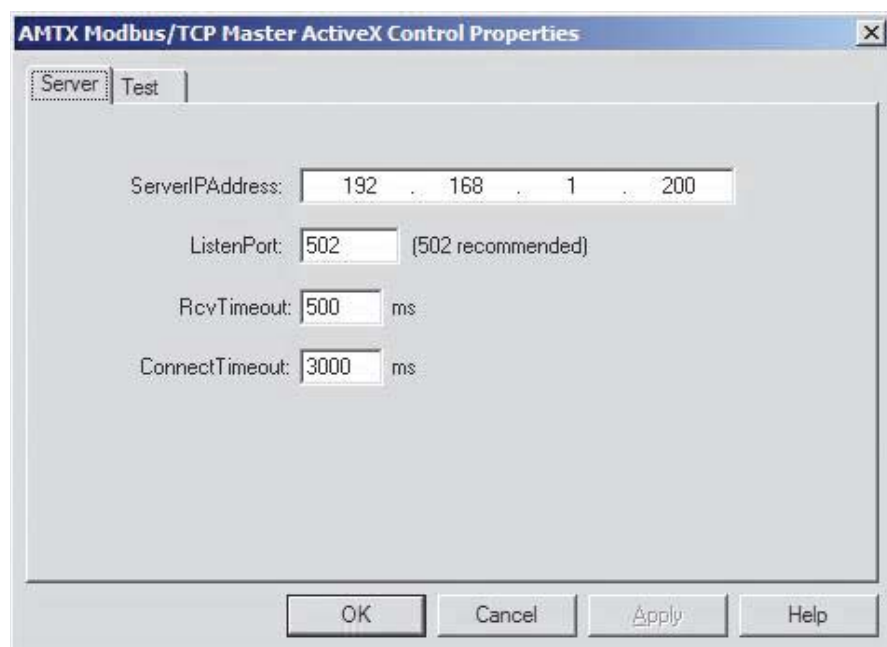


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## Software Controls Selection Guide

Controls	Protocols		Visual Studio 6.0		Visual Studio 2005/2008/2010			Windows			Compatible Products	
Model	Modbus/RTU (RS-485)	Modbus/TCP (Ethernet)	Visual Basic (VB6)	Visual C++ (VC6)	Visual Basic (.NET)	Visual C++ (.NET)	Visual C# (.NET)	Excel	32-bit	64-bit	900MB	900EN ES2000
AMRX	•		•	•				•	•		•	
AMRN	•				•	•	•		•	•	•	
AMTX		•	•	•				•	•			•
AMTN		•			•	•	•		•	•		•



**AMTX Modbus/TCP Master ActiveX Control Properties**

Server | Test

ServerIPAddress: 192 . 168 . 1 . 200

ListenPort: 502 (502 recommended)

RcvTimeout: 500 ms

ConnectTimeout: 3000 ms

OK Cancel Apply Help

## Ordering Information

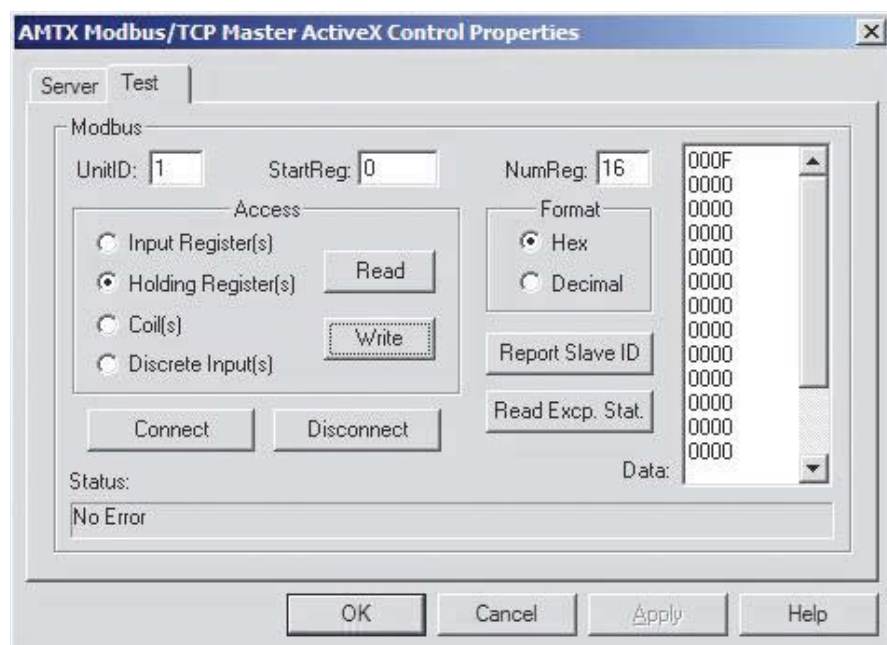
**AMRX-CD**  
Modbus/RTU ActiveX Control,  
Single Development Site License (on CD-ROM).

**AMRN-CD**  
Modbus/RTU Windows Forms Control,  
Single Development Site License (on CD-ROM).

**AMTX-CD**  
Modbus/TCP ActiveX Control,  
Single Development Site License (on CD-ROM).

**AMTN-CD**  
Modbus/TCP Windows Forms Control,  
Single Development Site License (on CD-ROM).

By purchasing a single development site license you may install the software and develop your application on a single PC and distribute it with your compiled application program royalty free an unlimited number of times. When used in a Microsoft Excel, Word, PowerPoint or other non-compiling end-user application program where full development capabilities are always present, a separate license file must be purchased and installed on each computer that the end-user application program is installed and running on. Please see the EULA included with the demo for complete licensing information.



**AMTX Modbus/TCP Master ActiveX Control Properties**

Server | Test

Modbus

UnitID: 1 StartReg: 0 NumReg: 16

Access

☐ Input Register(s)

☒ Holding Register(s) **Read**

☐ Coil(s) **Write**

☐ Discrete Input(s)

Format

☒ Hex ☐ Decimal

**Report Slave ID**

**Read Excp. Stat.**

**Connect** **Disconnect**

Status: No Error

Data: 000F 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000

OK Cancel Apply Help

**Acromag**   
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