

How to connect the VU-AMS with a PC running Authorware

- First make sure that AmsSerial.DLL is installed. You can do this by opening Control Panel->Add or remove Programs. If AmsSerial is not installed you must run the amsserial_setup setup with administrator privileges.
- To be able to use the library functions of AmsSerial.DLL, you must import the DLL functions into your Authorware script:

To load a DLL function in the Functions dialog box:

1. Select Window > Functions.
2. Select the name of the file you're working on in the Category pull-down list.
3. Click Load.
4. Select "C:\Windows\System32\AmsSerial.DLL" and click Open.
5. Enter the information for each function you would like to load.
 1. Type the function's name in the Function Name field.

For details, see [Custom function name formats](#).

2. Type the function's arguments in the Arguments field. Separate the arguments with commas.

See [Custom function argument list formats](#).

3. Type the function's return type in the Return field.

See [Custom function return type formats](#).

4. Type an optional description in the Description field.

For example:

Non-Authorware DLL

The DLL "AmsSerial.dll" which you have selected does not have function definitions included in it.

In order to load custom functions contained in this DLL, Authorware needs the following definitions (as referenced in your DLL documentation):

Function Name: Arguments: Return:

Description:

Example:

```
result := Connect("COM1", "AMS5fs")
```

You can import the following functions:

<i>Function Name</i>	<i>Arguments</i>	<i>Return</i>	<i>Description/Example</i>
Connect	String, String	Long	res:=Connect("COM1", "AMS5fs")
IsRecording	Void	Short	res := IsRecording()
Disconnect	Void	Void	Disconnect()
SendCodedMarker	Short	Long	res:=SendCodedMarker(12345)
SendMarker	Void	Void	SendMarker()
SendBeepingMarker	Void	Void	SendBeepingMarker()
GetSerial	Void	Short	res := GetSerial()
GetBatteryVoltage	Void	Float	res:=GetBatteryVoltage()
GetDllVersion	Void	Short	res:=GetDllVersion()

In most cases you will only use (and import) the first 4 functions.

Then, use calculation icons to insert code snippets that connect the VU-AMS device and send events. For example:

```
result := Connect("COM1";"AMS5fs")
if result=0 then
    SystemMessageBox(WindowHandle; "Connected to serial port."; "VU-AMS message"; 48)
else
    SystemMessageBox(WindowHandle; "Could not connect to serial port. Error number: " ^
        result; " VU-AMS message "; 48)
end if
result := IsRecording()
if result=1 then -- NOTE IsRecording() returns 1 when recording
    -- don't complain
else
    SystemMessageBox(WindowHandle; "VU-AMS is not recording!"; 48)
end if
result:=SendCodedMarker(1234)
Disconnect()
```

Note: in this example it assumed a temporary variable 'result' is already predefined.