



CSV2XML User Guide

Introduction

Vision Engineering wrote the software CSV2XML for the Southwire Company to assist in the exporting of measurement data from the M3 Software to their AB Varis data collection system. CSV2XML runs in conjunction with the M3 measuring software by using a script command in the operator prompts dialogue to send measurement data to the AB Varis database.

Installation

On the installation computer, run the setup program CSV2XML_setup.msi and follow the Setup Wizard.

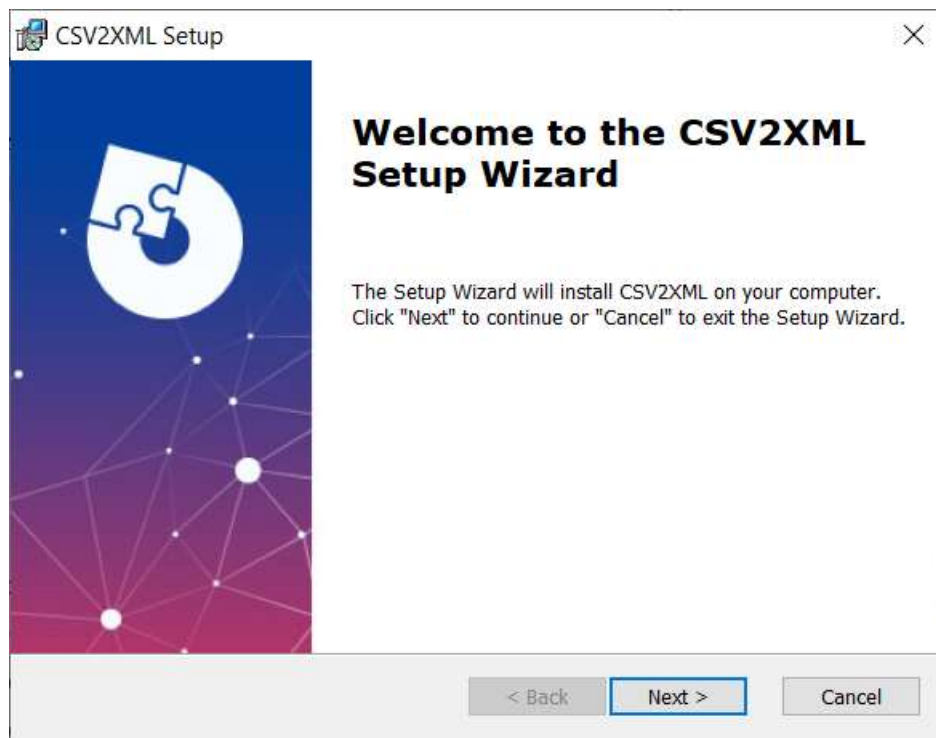


Figure 1 Click on Next

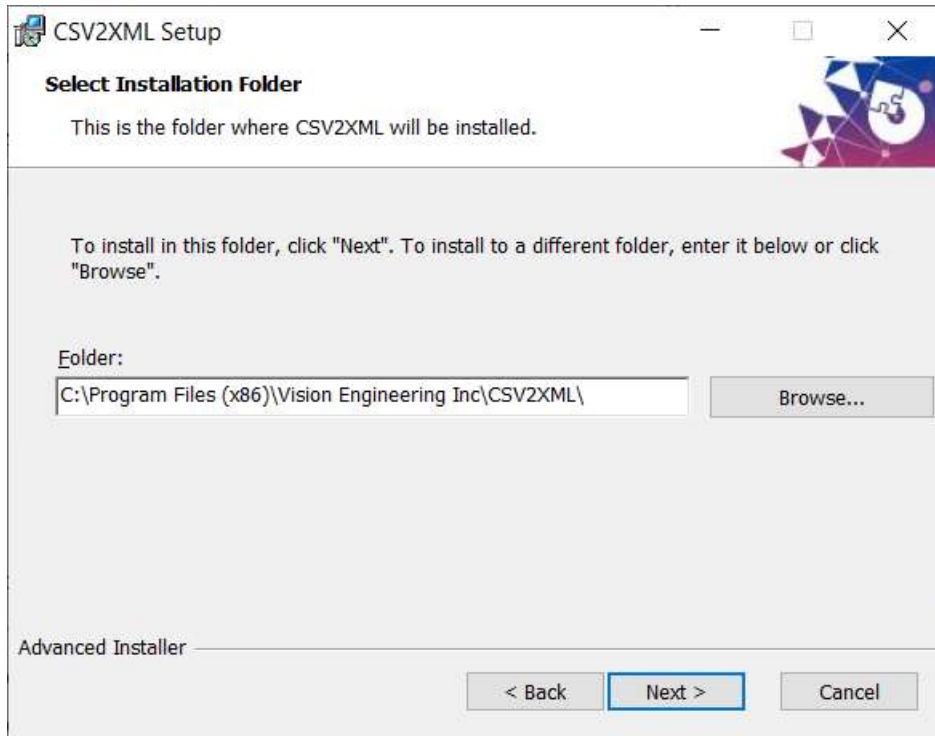


Figure 2 You may change the installation directory (not recommended)

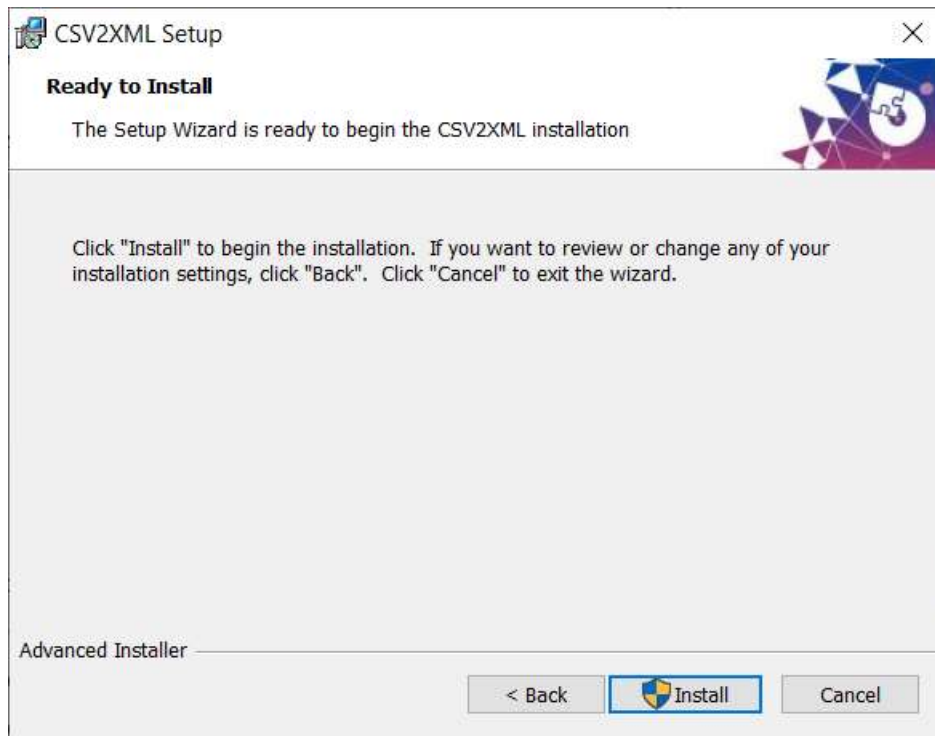


Figure 3 Click on Install. Note: You need administrator privileges for this step.

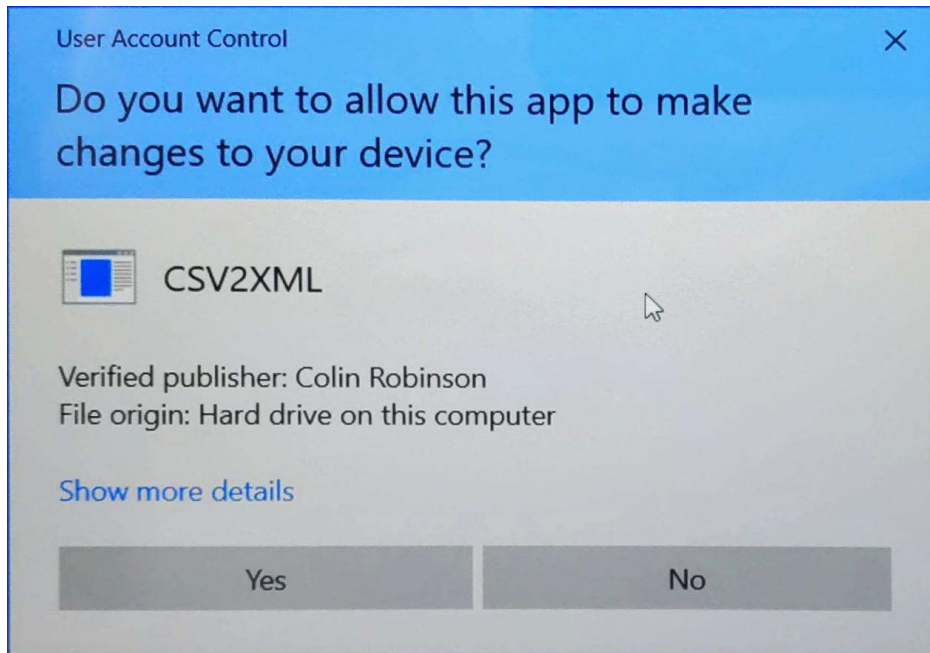


Figure 4 Please click on Yes.

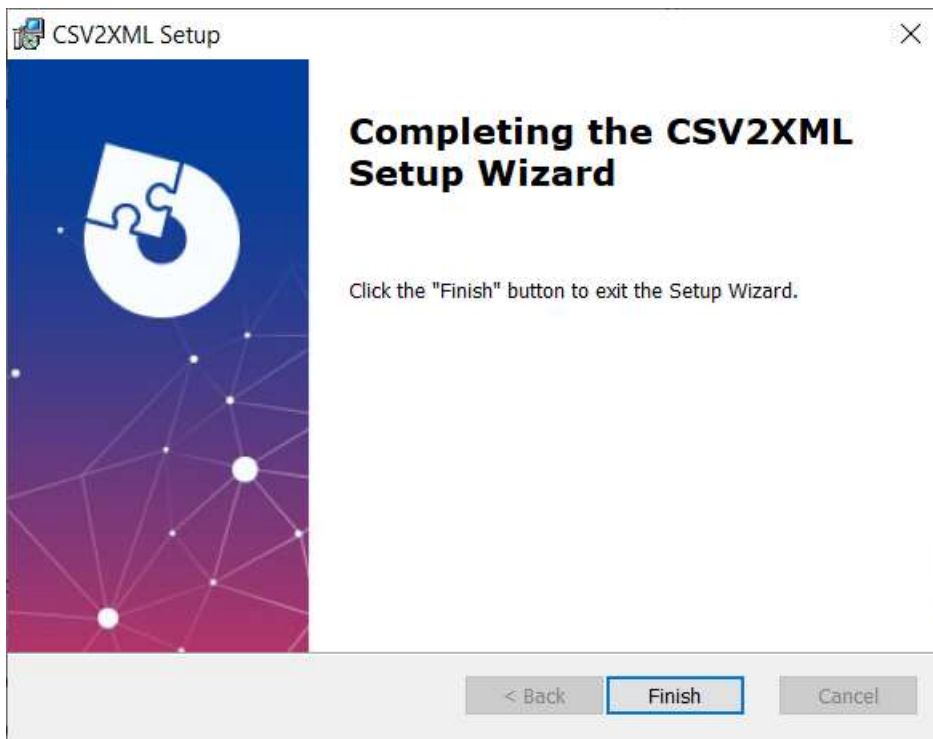


Figure 5 Please click on Finished.

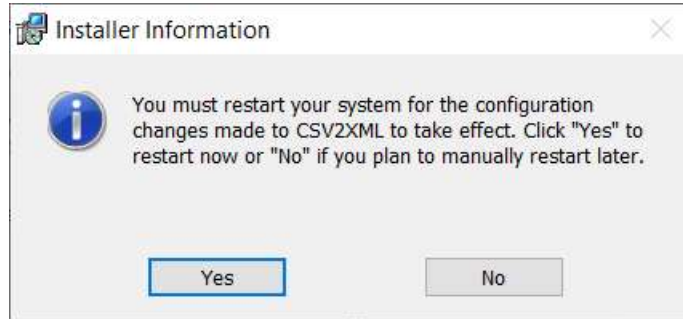


Figure 6 You must reboot the computer before using CSV2XML!

Installation program added system variables and registry entries. You must reboot the computer system before attempting to run CSV2XML.

Configuration

The installation program created the directory folder "*C:\Users\Public\Documents\CSV2XML*". Contained within this folder are two configuration files, "*Maps.ini*" and "*MachineNames.ini*".

Maps.ini is the main configuration file for CSV2XML and is where you set the AB Varis data storage path, the M3 inspection results path and file name of the CSV file containing the inspection results, display setting for the optional Send Data Confirmation dialog box, and the mapping of the M3 feature names and coefficients to the AB Varis tags.

Using Notepad, edit the Maps.ini file, and make the necessary changes for the machine setup.

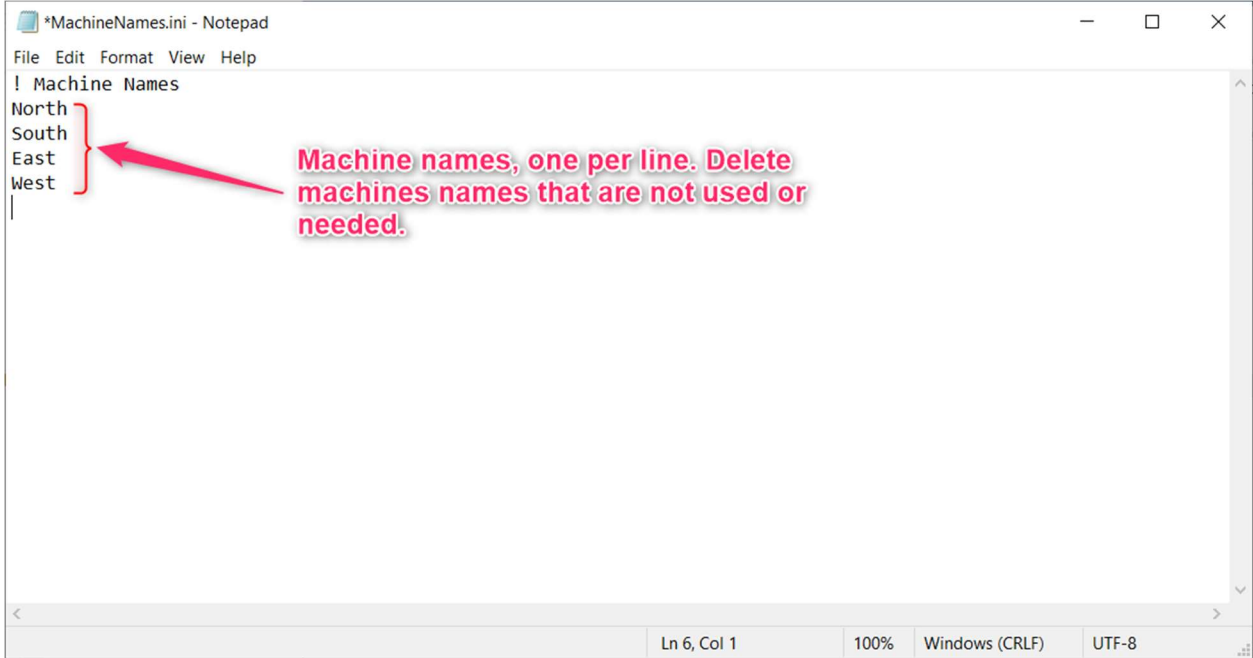
A screenshot of a Notepad window titled "*Maps.ini - Notepad". The window shows the contents of the Maps.ini file with several red arrows pointing to specific lines and text annotations. The file content includes file path mappings, instructions for results paths, display settings for a confirmation dialog, and a list of feature names and coefficients for mapping to XML tags. The status bar at the bottom shows "Ln 24, Col 31", "100%", "Windows (CRLF)", and "UTF-8".

```
File Edit Format View Help
! File path maps.
StorePath=C:\Users\colin\OneDrive\Desktop\
!
! Results Path and File Name. Remember to export an European or European 2 format report from the M3 measuring software.
ResultsPath=C:\Users\Public\Documents\MetLogix\Exports\Results.CSV
!
! Display Send Data Confirmation Dialog box. ConfirmSend=0 to Disable(default),ConfirmSend=1 to Enable.
ConfirmSend=0
!
! Use this part of the file for mapping M3 feature names and coefficient of a feature in the CSV file to Tag names in the XML file.
! For example FeatureName_Coefficient>XMLtag
!
Insulation 1_Min>12345678977765
Insulation 1_Max>12345678977766
Insulation 1_Avg>12345678977767
Insulation 1_Con>12345678977768
Insulation 1_ID>12345678977769
Insulation 1_OD>12345678977770
Insulation 2_Min>12345678977785
Insulation 2_Max>12345678977786
Insulation 2_Avg>12345678977787
Insulation 2_Con>12345678977788
Insulation 2_ID>12345678977789
Insulation 2_OD>12345678977790
```

Annotations in the image:

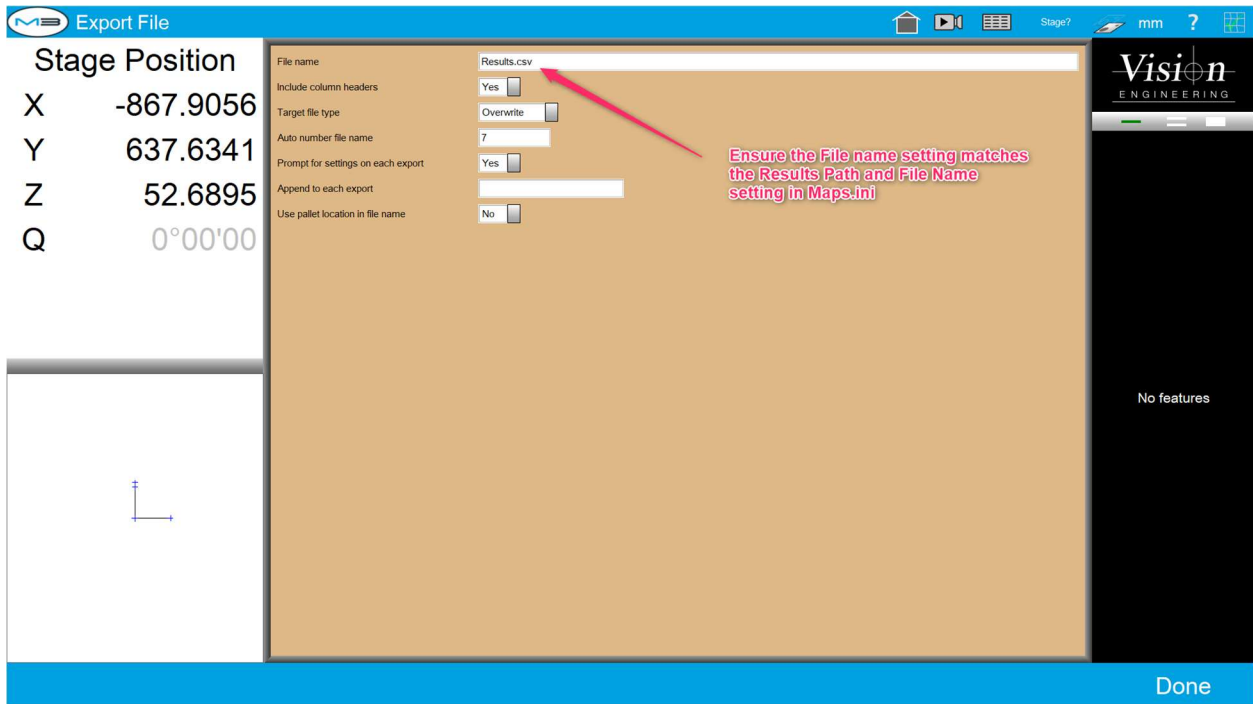
- Red arrow pointing to `StorePath=C:\Users\colin\OneDrive\Desktop\` with text: "File path to AB Varis data storage."
- Red arrow pointing to `ResultsPath=C:\Users\Public\Documents\MetLogix\Exports\Results.CSV` with text: "File path and file name of M3 results file in CSV format."
- Red arrow pointing to `ConfirmSend=0` with text: "Display the Optional Send Data Confirmation dialog box setting."
- Red arrow pointing to `Insulation 2_OD>12345678977790` with text: "AB Varis Data Tag"
- Red arrow pointing to `Insulation 1_Min>12345678977765` with text: "Feature Name"
- Red arrow pointing to `12345678977765` with text: "Feature Coefficient"

MachineNames.ini contains a sequential list of machine names, one machine name per line. Edit this file using Notepad and enter the machine names for the product line. CSV2XML prompts the operator to select a machine name from the drop-down list when it starts exporting the measurement results to AB Varis.

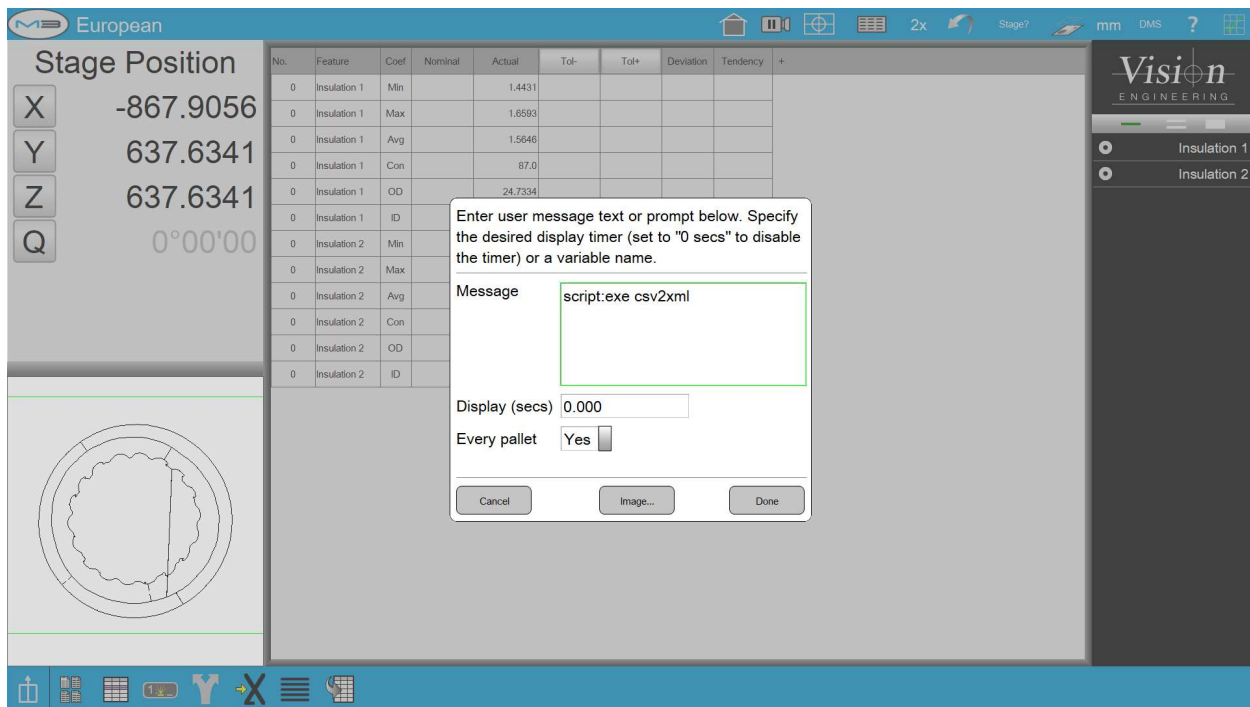


Using CSV2XML from inside the M3 Measuring Software.

1. In the M3 Software, create a new part.
2. In M3 Settings (you must log in as a Supervisor!), goto Exports and ensure that the File Name matches the Results Path and File Name setting in Maps.ini. Click on Done twice in the bottom right to exit the settings screen.



3. Start creating a measurement program, and measure the features to export to AB Varis.
4. Export the measurement results in a European format or a European 2 format report to a CSV file. If the Export Page/ViewPort is displayed, ensure the file name is the same as that specified in Results Path and File Name setting in Maps.ini.
5. Open an operator prompt and key in the following: **“script:exe csv2xml”**. See the picture below.



6. Save the program and run.

Running an M3 inspection program with CSV2XML.

1. Open and run the program.
2. Inspect the features.

3. Select the machine name.

The screenshot shows the Vision Engineering software interface. The main window displays a table with 10 rows of inspection data. A dialog box titled "Select Machine" is open, showing a dropdown menu with "Select One" and an "OK" button. The text "All tolerances passed." is visible on the left side of the interface.

No.	Feature	Coef	Nominal	Actual	Tol-	Tol+	Deviation	Tendency
0	Insulation 1	Min		1.4431				
0	Insulation 1	Max		1.6593				
0	Insulation 1	Avg		1.5647				
0	Insulation 1	Con		87.0				
0	Insulation 1	OD		24.7335				
0	Insulation 1	ID		21.3356				
0	Insulation 2	Min		1.8079				
0	Insulation 2	Max		2.2687				
0	Insulation 2	Avg		2.0723				
0	Insulation 2	Con		79.7				
0	Insulation 2	OD		21.3356				
0	Insulation 2	ID		16.4713				

4. If enabled, click Yes or No on the Send Results Confirmation Dialog box.

The screenshot shows the Vision Engineering software interface. The main window displays a table with 10 rows of inspection data. A dialog box titled "Send Data?" is open, showing "Yes" and "No" buttons. The text "All tolerances passed." is visible on the left side of the interface.

No.	Feature	Coef	Nominal	Actual	Tol-	Tol+	Deviation	Tendency
0	Insulation 1	Min		1.4431				
0	Insulation 1	Max		1.6593				
0	Insulation 1	Avg		1.5646				
0	Insulation 1	Con		87.0				
0	Insulation 1	OD		24.7334				
0	Insulation 1	ID		21.3356				
0	Insulation 2	Min		1.8079				
0	Insulation 2	Max		2.2687				
0	Insulation 2	Avg		2.0723				
0	Insulation 2	Con		79.7				
0	Insulation 2	OD		21.3356				
0	Insulation 2	ID		16.4713				