

Installation Instructions

Original Instructions

Product Configuration using Device Type Manager (DTM)

Catalog Numbers 931N-U221, 931S-N392, 931S-U382, 931S-U392, 931S-U561, 931S-V291

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The following products can process a broad range of input and output signal options. To make the configuration process easier these products use a program that is commonly known as DTM (Device Type Manager). These products are universal, provide signal versatility, and unique signal processing that is not supported by many standard devices.

- 931N-U221
- 931S-N392
- 931S-U382
- 931S-U392
- 931S-U561
- 931S-V291

Download and Install PACTware Software

PACTware is a manufacturer-independent software that is standardized to be used as a tool for configuring devices. The software is developed and managed by PACTware consortium member companies. The program is free of charge to download from member companies: <https://pactware.com/products/pactware>. The following is an example of how to download and install pactware from one of the member companies, Pepperl-Fuchs.

1. Visit https://www.pepperl-fuchs.com/usa/en/classid_163.htm.

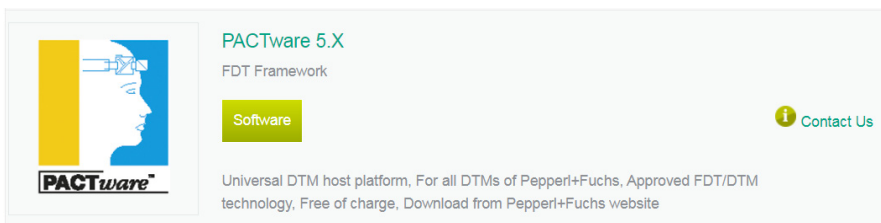


PACTware

[View All Products in Group](#) [Group Overview](#) [Group Literature](#) [Ask an Expert](#)

Choose your product

2. Click View All Products in Group.
3. Scroll to PACTware version 5.x.
4. Click Download.



5. Once the files are downloaded, complete the installation using the setup.exe file.

Download and Install DTM Files

1. Visit the Rockwell Automation Product Compatibility and Download Center (PCDC), here: <https://compatibility.rockwellautomation.com/Pages/MultiProductDownload.aspx?crumb=112>
2. Enter 931N-U221 in the search field.

The screenshot shows the Rockwell Automation website's 'Compatibility & Downloads' section. A search bar at the top contains '931N-U221'. Below the search bar, a table lists the search results. The first result is '931N-U221' with the description 'Universal Input to Analog Output, Single Channel, 24VDC (Process Solutions/Signaling)'. To the right of the table are buttons for 'COMPARE' and 'DOWNLOADS'.

3. Click Downloads.

The screenshot shows the 'Downloads' section for the selected product. It features a table with one row for '931N-U221' (version 1.3.7). The table has columns for 'Downloads' and 'Select Files'. The 'Select Files' checkbox is currently unchecked.

4. Click Select Files

The screenshot shows the 'Downloads' section with the 'Select Files' checkbox now checked, indicating that the user has selected the files for download.

5. Click DTM-Device Type Manager for 931X-XXXX v.1.37

The screenshot shows the 'DTM - Device Type Manager' download page. It displays the product name '931N-U221 1.3.7' and a 'Downloads 1' button. Below this, there is a list of available DTM files, with 'DTM - Device Type Manager for 931X-XXXX v1.3.7' selected.

This shows the DTM files for this product.

The screenshot shows the details for the selected DTM file: 'Product: DTM - Device Type Manager for 931X-XXXX v1.3.7' and 'Version: 1.3.7'. Below this, there is a link to download the file: 'Allen-Bradley 931 DTM Library Setup Online.exe'. Additional information includes the description, file size (50.75 MB), check sum, and comments.

6. Once downloaded, run the .exe file to complete the installation.



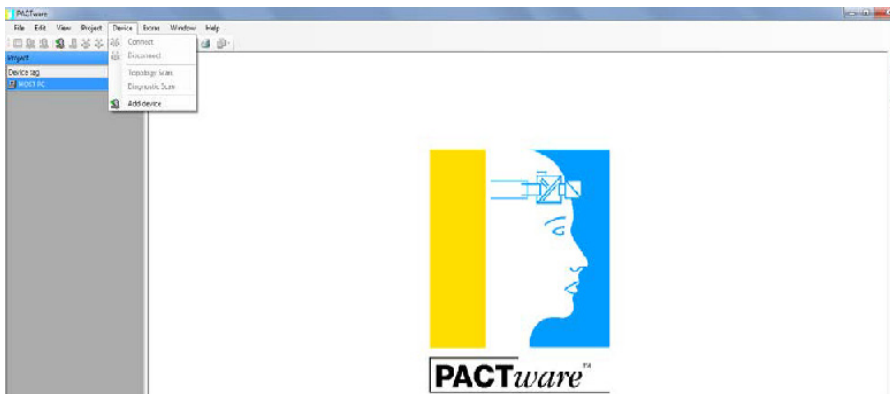
Once this is complete, the next time you open pactware you should be able to see this product added within device catalog library.

Configure the Product

1. Open PACTware.

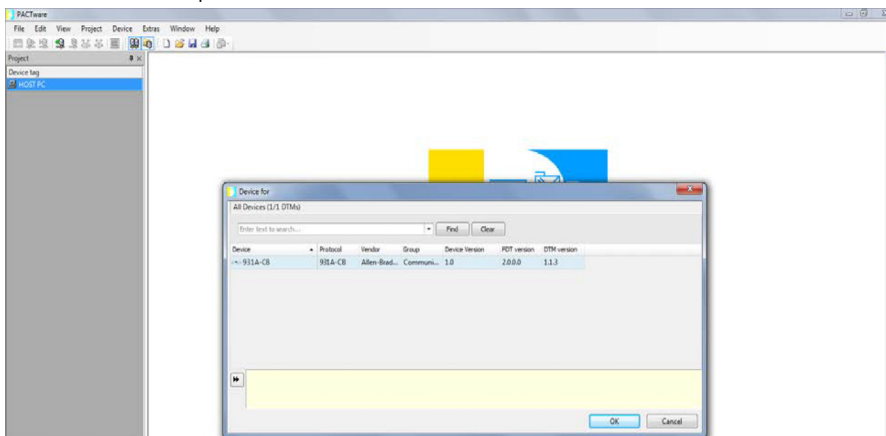


2. From the Device Menu, choose Add Device.



This screen shows the connecting cable 931A-CB to be loaded.

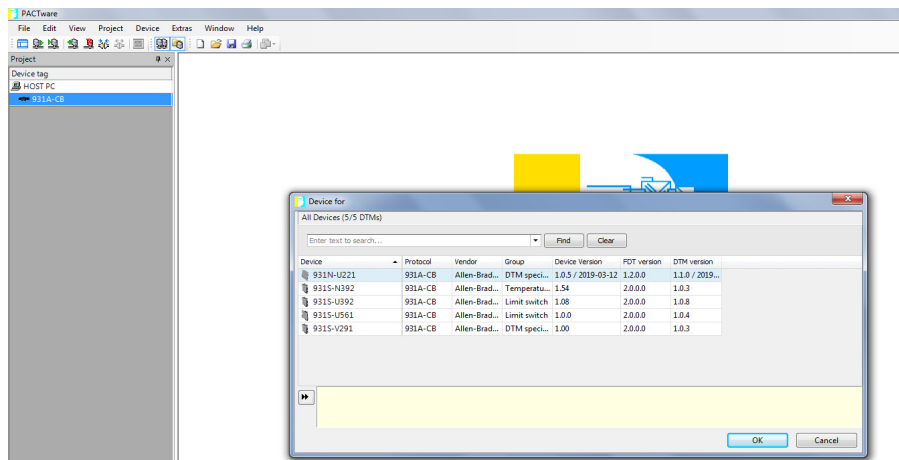
3. Double-click 931A-CB or press OK.



4. Click the highlighted icon or choose Add Device from the Device menu.



The following screen appears.



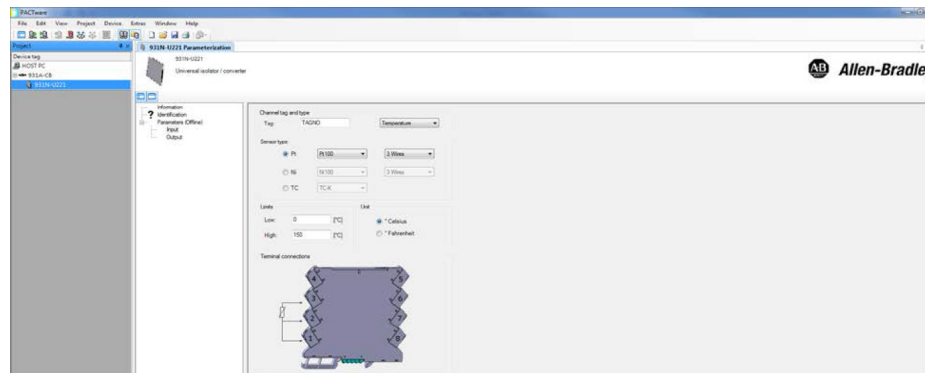
5. Select the product to be configured. For example, select 931N-U221.

The product that you selected shows up on the left, project section.



6. Double-click 931N-U221.

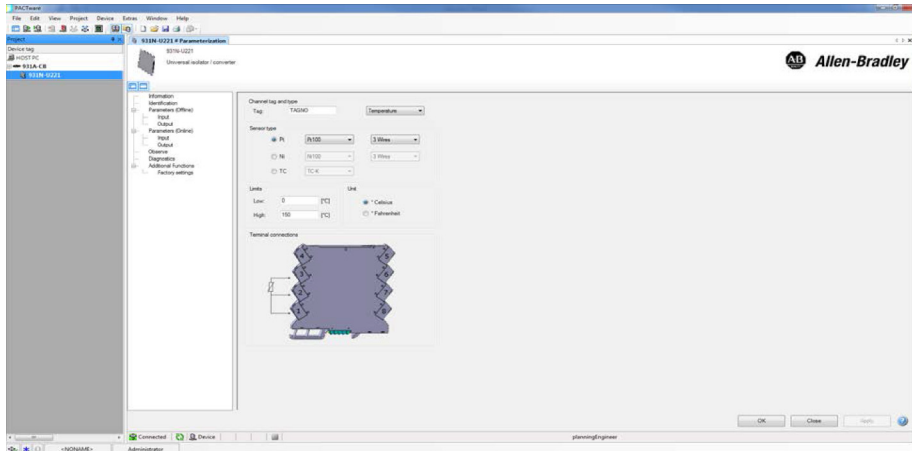
The configuration dialog box appears.



7. Click the Connect icon (highlighted) connect the device to the FDT to make it active to configure.



Once connected, a green icon with Connected appears at the bottom. In this screen, you will be able to configure the input and output options. Do the configuration under the Parameters Online tab.

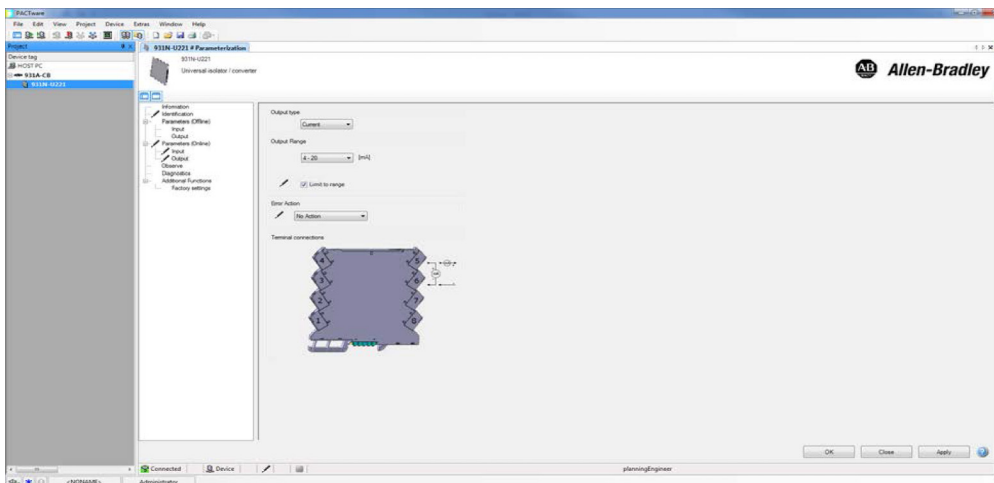


For example, to change the thermocouple TC K, with temperature range from 60...120 °F. In this screen, you can also change the tag name.

8. Once you have changed the parameters, click apply.

Set the output signal to be current, 4...20 mA with limit range option as shown in the following image. You also can set error action either on the upper or lower limits of set value.

9. Once the input and output are configured, click Apply.



Your device is now configured. You can close the session or click the Disconnect icon next to the Connect icon on the top ribbon.

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
Signal Conditioner Specifications Technical Data, 931-TD002	Detailed specifications on signal conditioners and accessories.
Bulletin 931 Signal Conditioners Product Profile, 931-PP001	An overview of the signal conditioner products and features.
Bulletin 931 Signal Conditioners Migration Solutions, MIGRAT-PP041	Migration information for the signal conditioner line of products.
Safety Guidelines for the Application, Installation, and Maintenance of Solid-State Control, publication SGI-1.1	Designed to harmonize with NEMA Standards Publication No. ICS 1.1-1987 and provides general guidelines for the application, installation, and maintenance of solid-state control in the form of individual devices or packaged assemblies incorporating solid-state components.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, rok.auto/certifications .	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at rok.auto/literature.

Rockwell Automation Support

Use these resources to access support information.





Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, and product notification updates.	rok.auto/support
Knowledgebase	Access Knowledgebase articles.	rok.auto/knowledgebase
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Get help determining how products interact, check features and capabilities, and find associated firmware.	rok.auto/pcdc

Documentation Feedback

Your comments help us serve your documentation needs better. If you have any suggestions on how to improve our content, complete the form at rok.auto/docfeedback.

Rockwell Automation maintains current product environmental information on its website at rok.auto/pec.

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