DREXELBROOK®

A Leader in Level Measurement

PACT*ware*™ Configuration Addendum

For the

Universal V Lite and Universal V Pro Model Transmitters

and

Universal V Water Cut Meter



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LEVEL MEASUREMENT SOLUTIONS

Introduction

This addendum provides instructions for configuring the Universal V Lite and Universal V Pro Model Transmitters and Universal V Water Cut Meters using PACT*ware*™ and applicable FDI package.

The procedures in this addendum replace the legacy HRTWin configuration found in AMETEK LMS bulletins 64-602 Universal V Pro & Lite manual and 64-603 Universal V CM manual.

All other installation, operation, calibration, maintenance, and safety information contained in the primary manual remains applicable and should be followed.

Use this addendum in conjunction with the appropriate Universal V product manual.

Software and PC Requirements

Before beginning the configuration procedure, verify that the computer meets the current PACT*ware*™ system requirements. A compatible Windows® PC with sufficient storage and memory, an available connection for the HART communication modem, and administrator privileges for installing software and device packages is required. Internet access is also recommended for downloading the necessary software and updates.

Download and install the latest supported version of PACT*ware* from:
fieldcommgroup.org/pactware

The required AMETEK Drexelbrook DTMs and FDI packages for the Universal V Lite, Universal V Pro, and Universal V Water Cut Meter are available from:
ametek-measurement.com

Install PACT*ware*, the applicable HART communication DTM, and the appropriate AMETEK Drexelbrook device DTM or FDI package before connecting to the instrument. Refer to the following instructions for adding the downloaded packages to the PACT*ware* Device Catalogue. The following instructions will apply to both the Universal V Level Transmitters as well as the Water Cut Meters. Diferences in configuration will be highlighted as needed.

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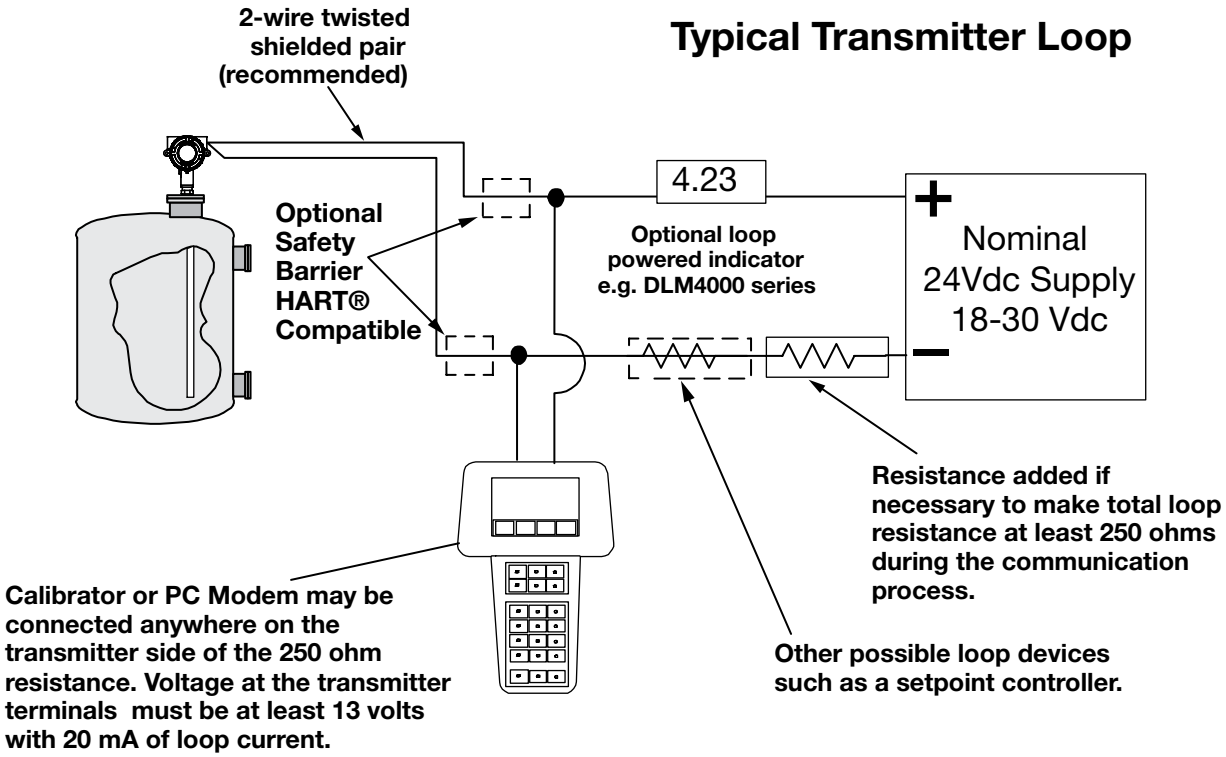
Start-up

After the Universal V transmitter is installed and loop power is applied, do the following:

1. Connect the handheld calibrator as shown in the illustration below.

2. Turn on the Calibrator and look for the ONLINE screen to appear. ONLINE means that the handheld HART® Calibrator has recognized the Universal V and is ready for Configuration and Calibration.

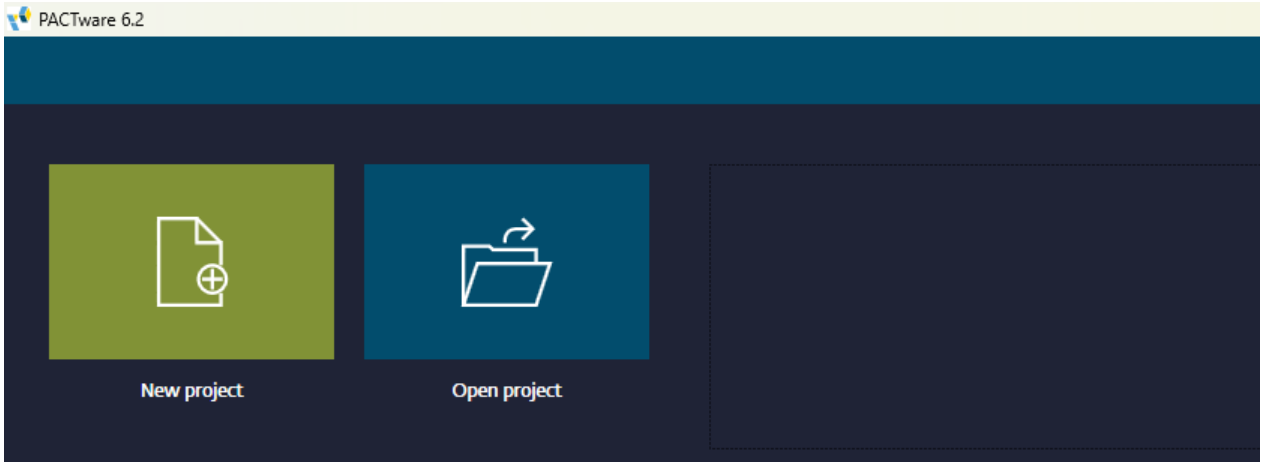
3. You must start the process by performing the Configuration first, followed by Calibration. There are also instructions in bulletins 64-602 & 64-603 for configuring the Strapping Tables and for performing a D/A Trim to make the loop output agree with a calibration standard for loop current.



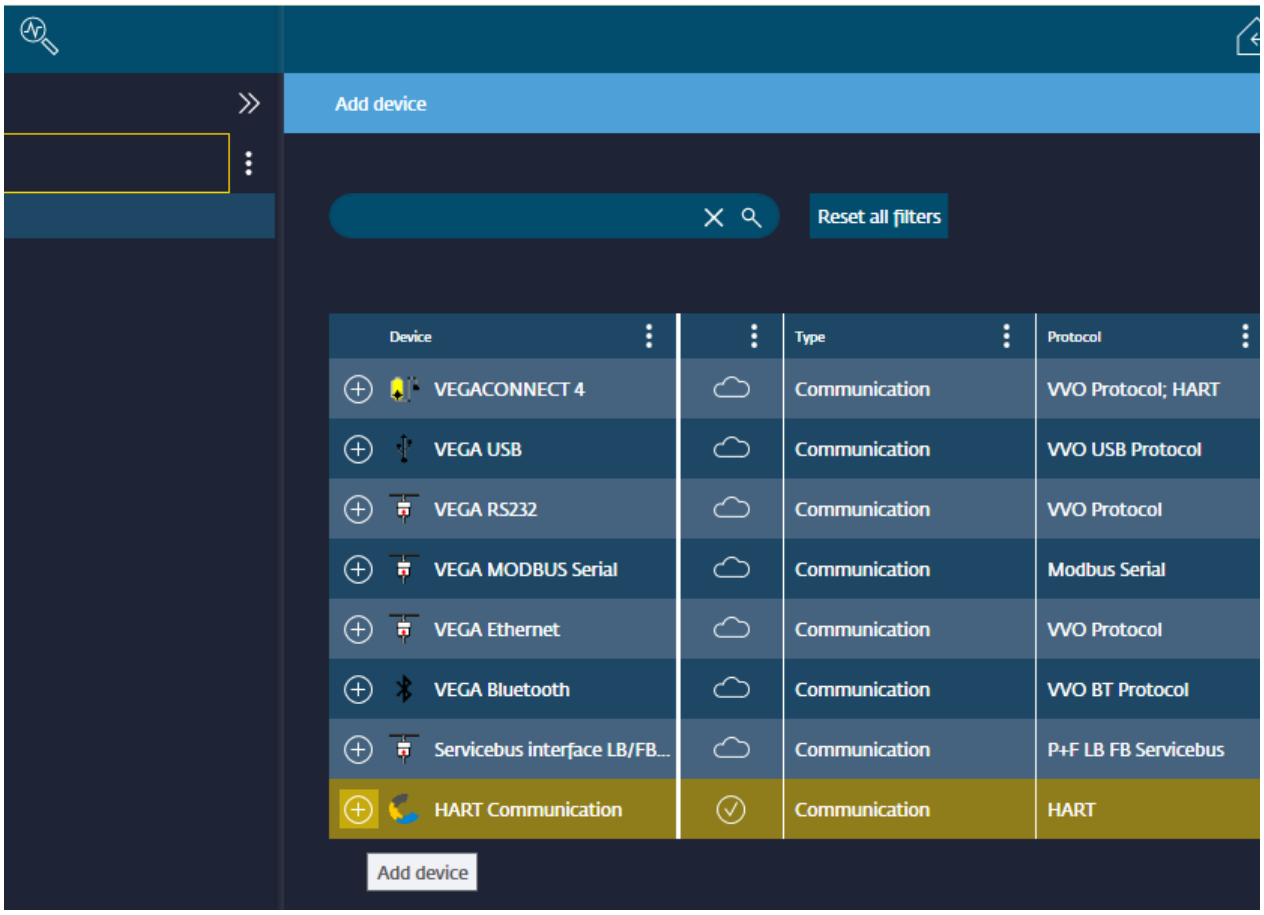
PACT*ware*™ Configuration

1. Open PACT*ware*. The latest version can be downloaded and installed from: fieldcommgroup.org/pactware

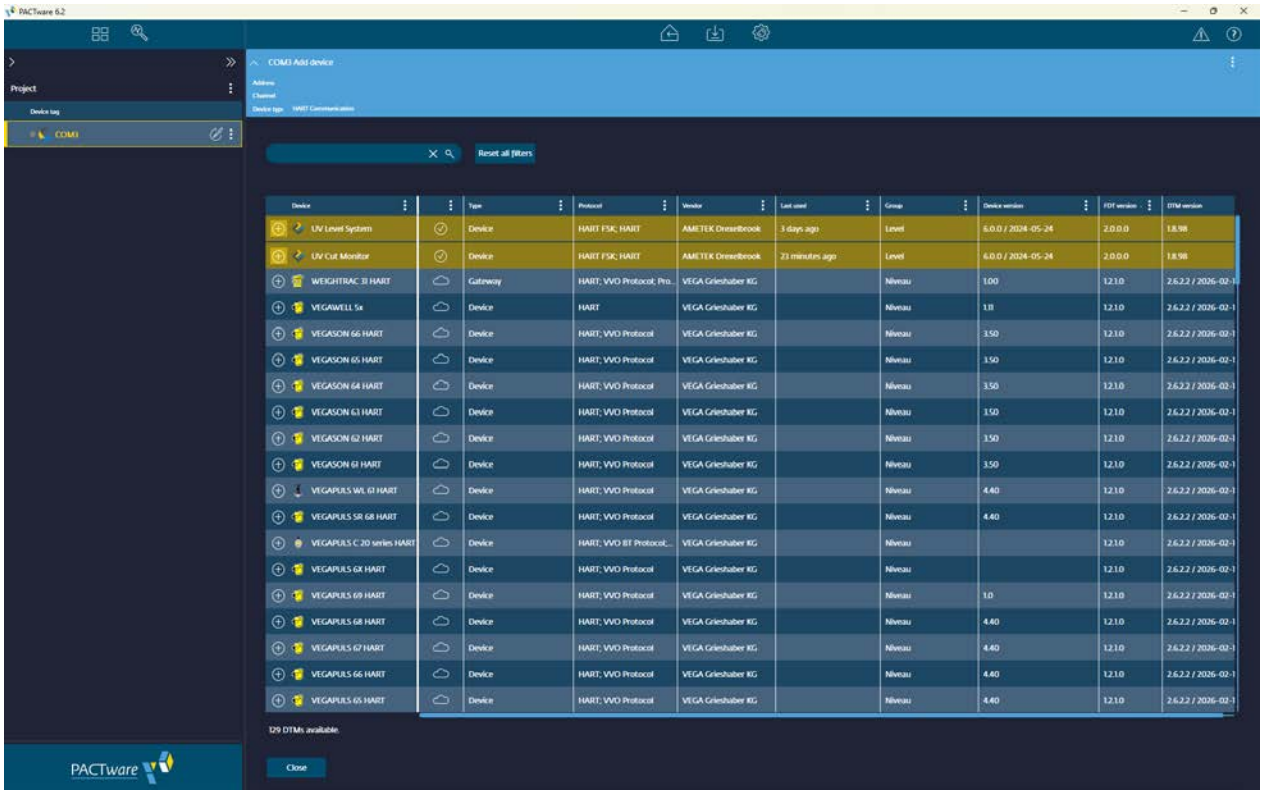
   Select “New Project."



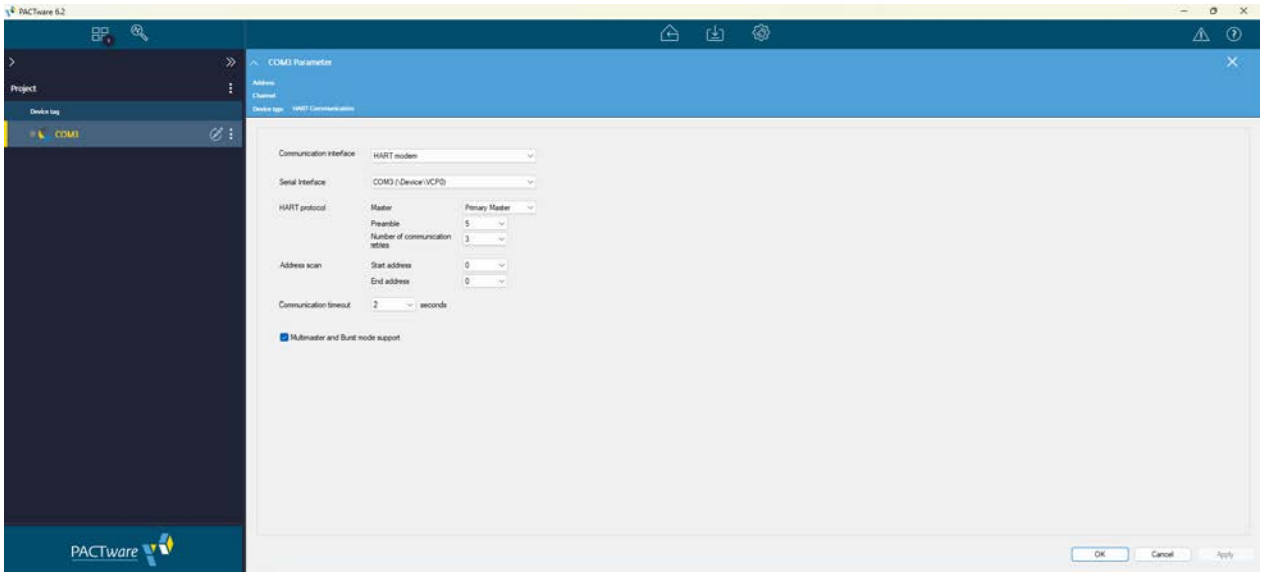
2. The next screen shows all installed CommDTMs on your system. If this is a fresh installation, it will show only one DTM: “HART Communication” by CodeWrights GMbH. Click the “+” to add it to your Project.



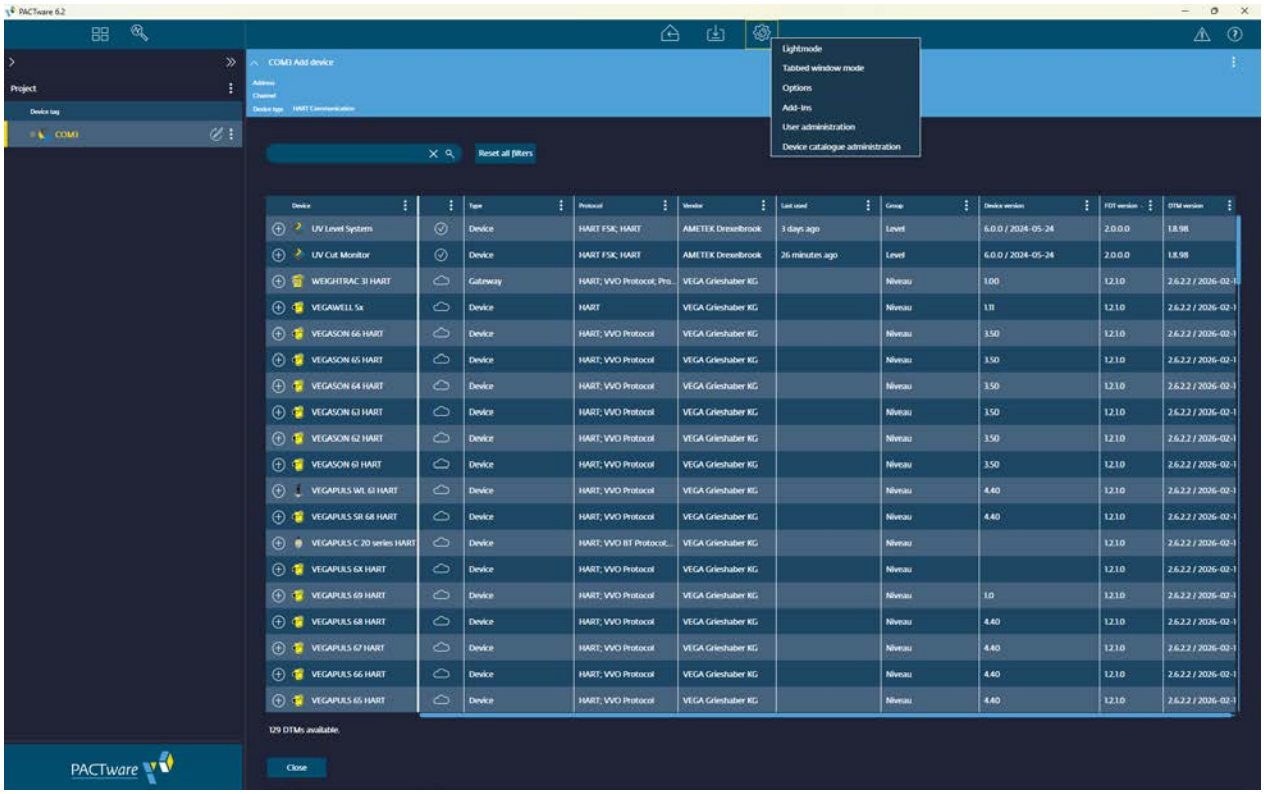
3. PACT*ware* will now show all HART devices that can connect to the chosen CommDTM. This includes any HART DTMs or FDI Packages that have been added to the Device Catalogue. If this is the first time opening PACT*ware*, the list may be empty.



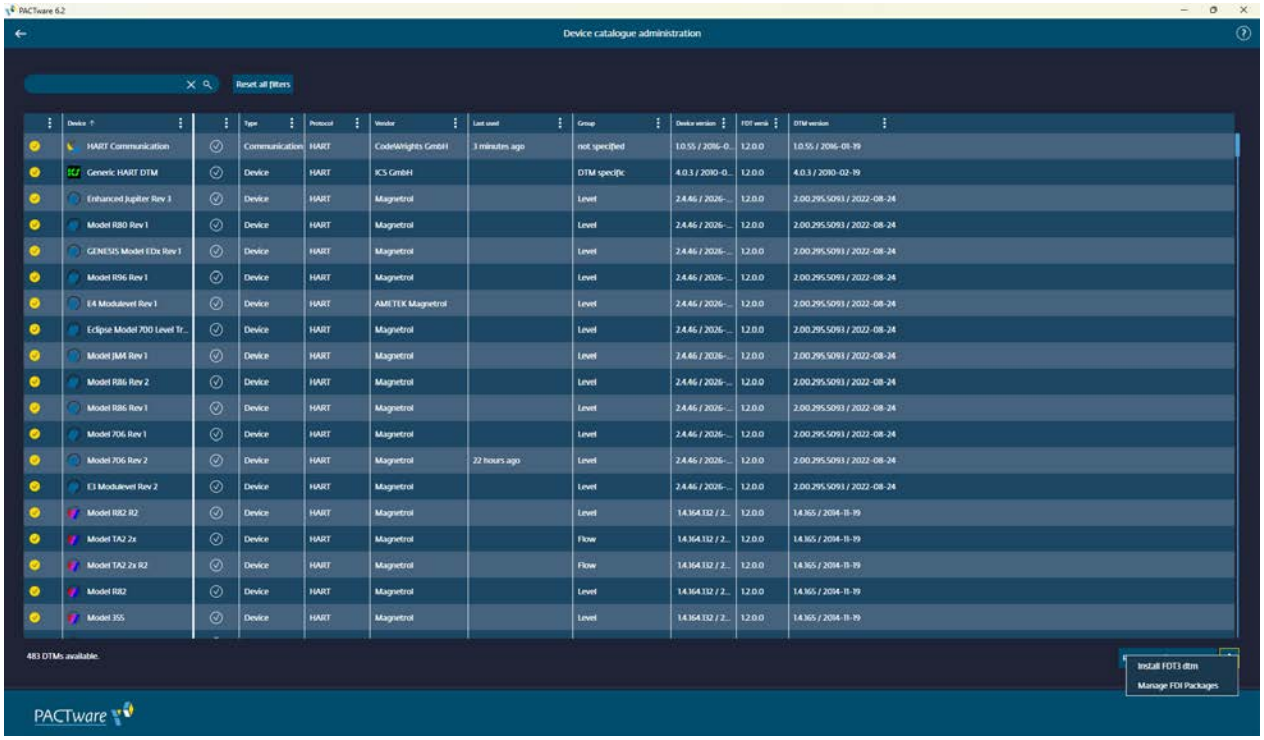
4. Double-click the CommDTM ((indicated on left as "COM 3"—your COM port # may be different)) to configure the communication parameters of the HART modem. This includes COM port, Primary/Secondary Master configuration, Poll Address Range, Burstmode support, etc. Click “OK” to accept the configured parameters.Select “New Project."



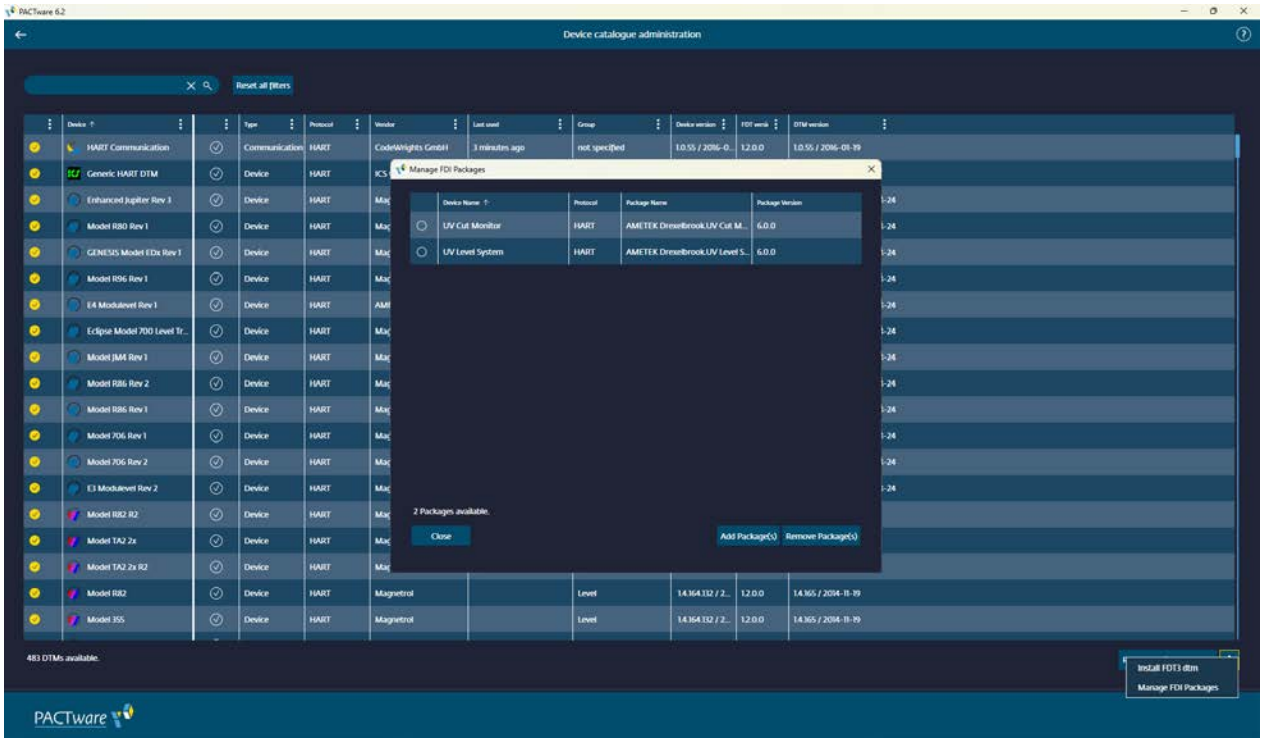
5. If the list of devices is empty, or the device you're looking for is not present, add it by clicking on the Settings symbol and selecting "Device Catalogue Administration."



6. Click on "Refresh Device Configuration" at the bottom right. PACT*ware* will detect any available recently installed DTMs. To add an FDI Package, click the ellipses in bottom right, and select "Manage FDI Packages."

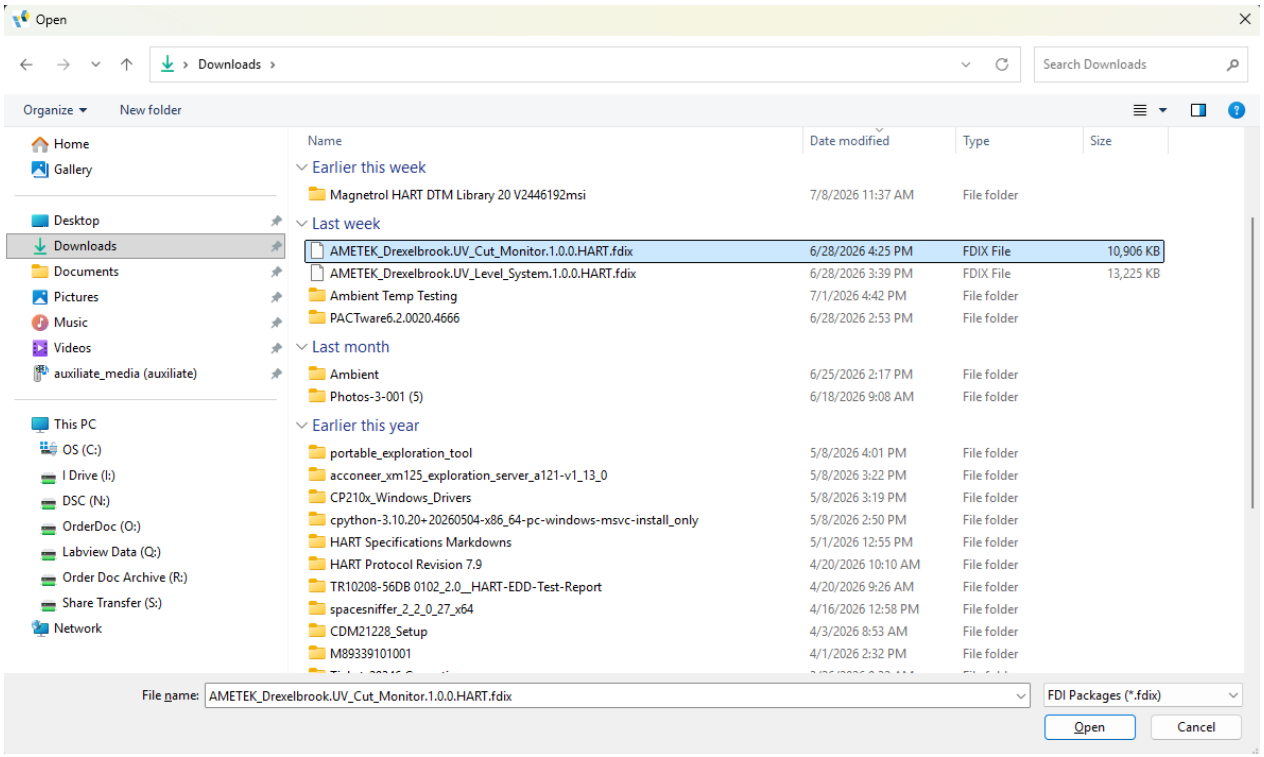


7. The window that appears will show all installed FDI Packages. If this is the initial use since PACT*ware* was installed, this list will likely be empty. To add an FDI Package, select “Add Package(s)” in the bottom right.



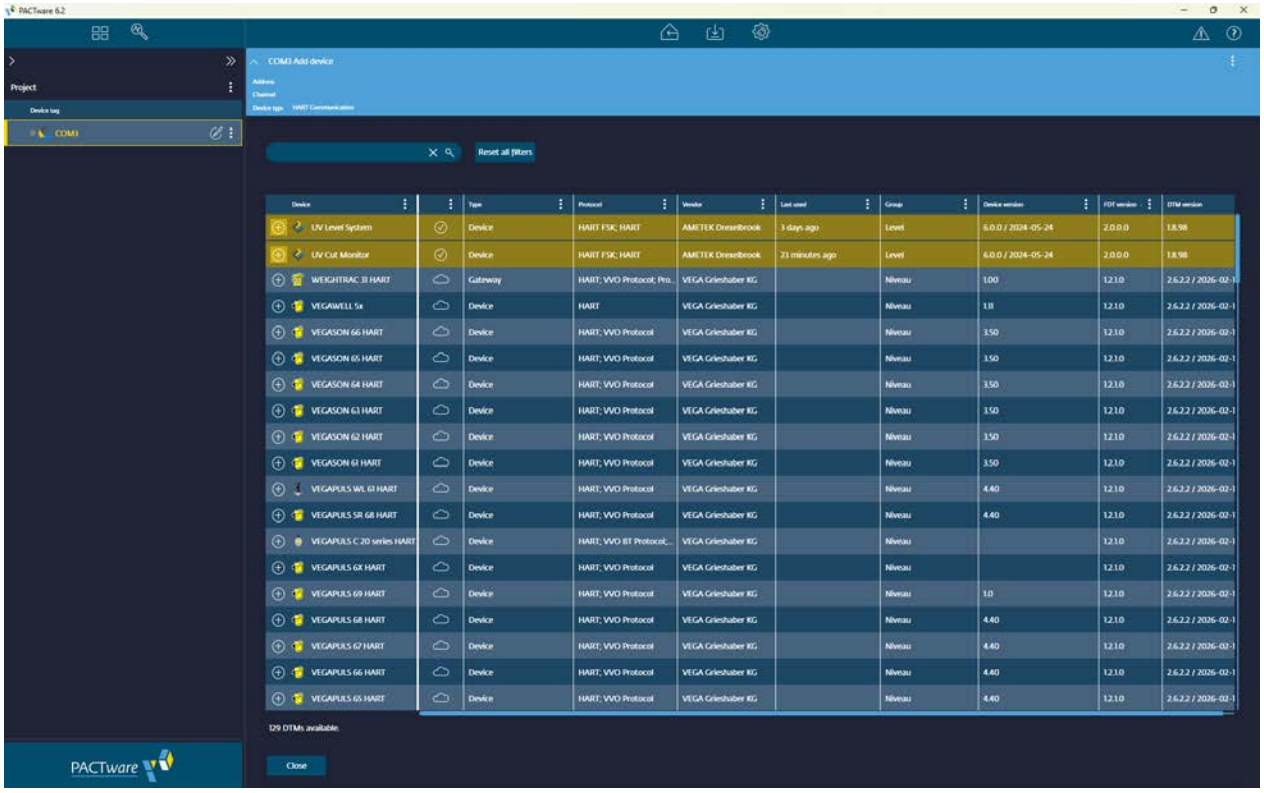
8. A Windows Explorer dialog box will open. FDI packages can be selected from your downloads. FDI Packages are identified by the “*.fdix” file type.

   Select the FDI package(s) to be added. Click on “Open.”

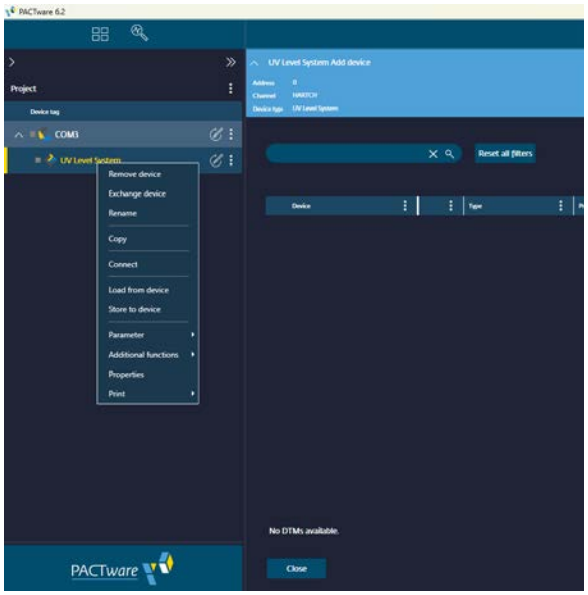


9. The FDI packages are now added to the list. Click “Close,” and then use the Back arrow located at the the top left of the Device Catalogue Administration menu to return to the CommDTM.

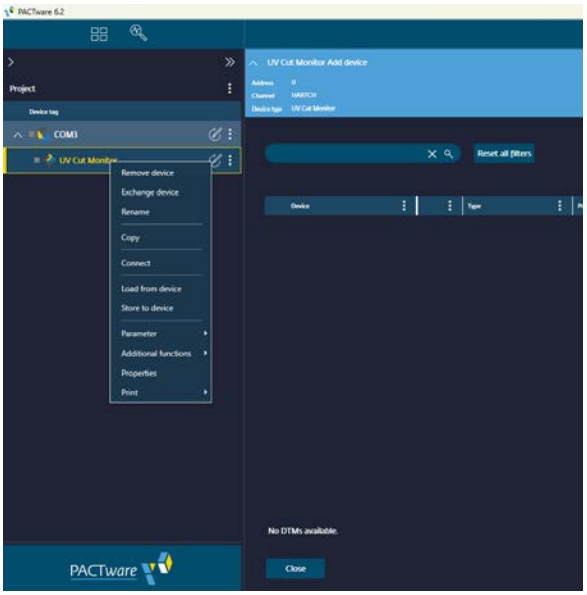
   Select the device you would like to connect to by pressing the “+” on the appropriate row.



10. The device is now added to the Project Tree. Connect to the device by right-clicking and selecting “Connect.”

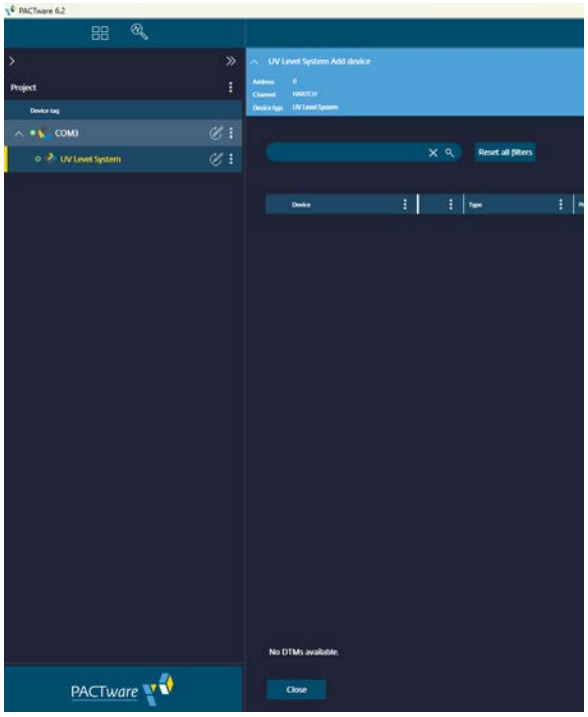


UV Level System

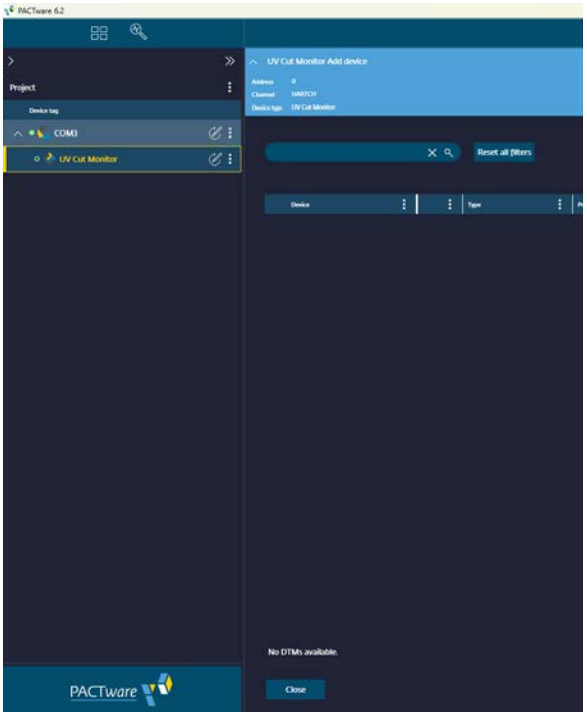


UV Cut Monitor

11. The grey indicators have turned green to indicate a successful connection.

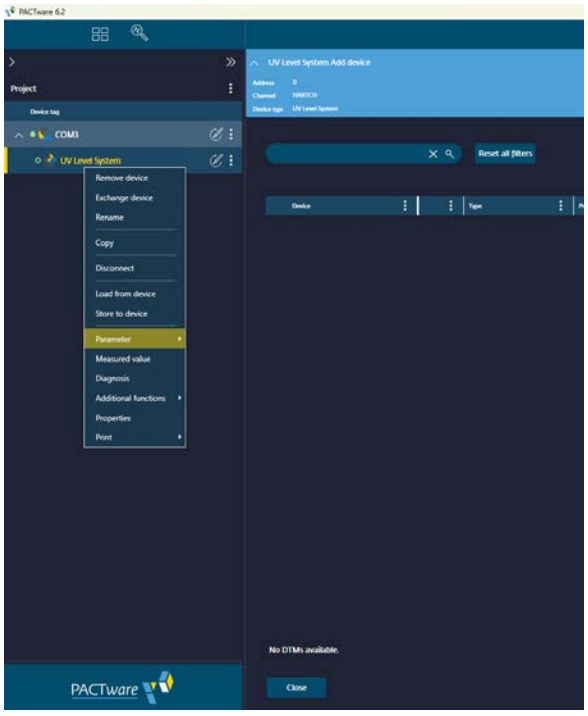


UV Level System

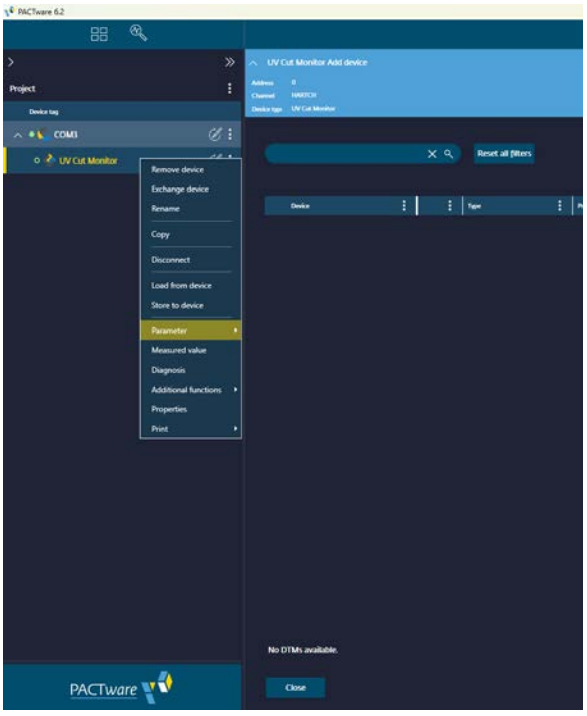


UV Cut Monitor

12. To open the FDI Package after connecting, either double-click on the device, or right-click and select “Online Parameterization.”

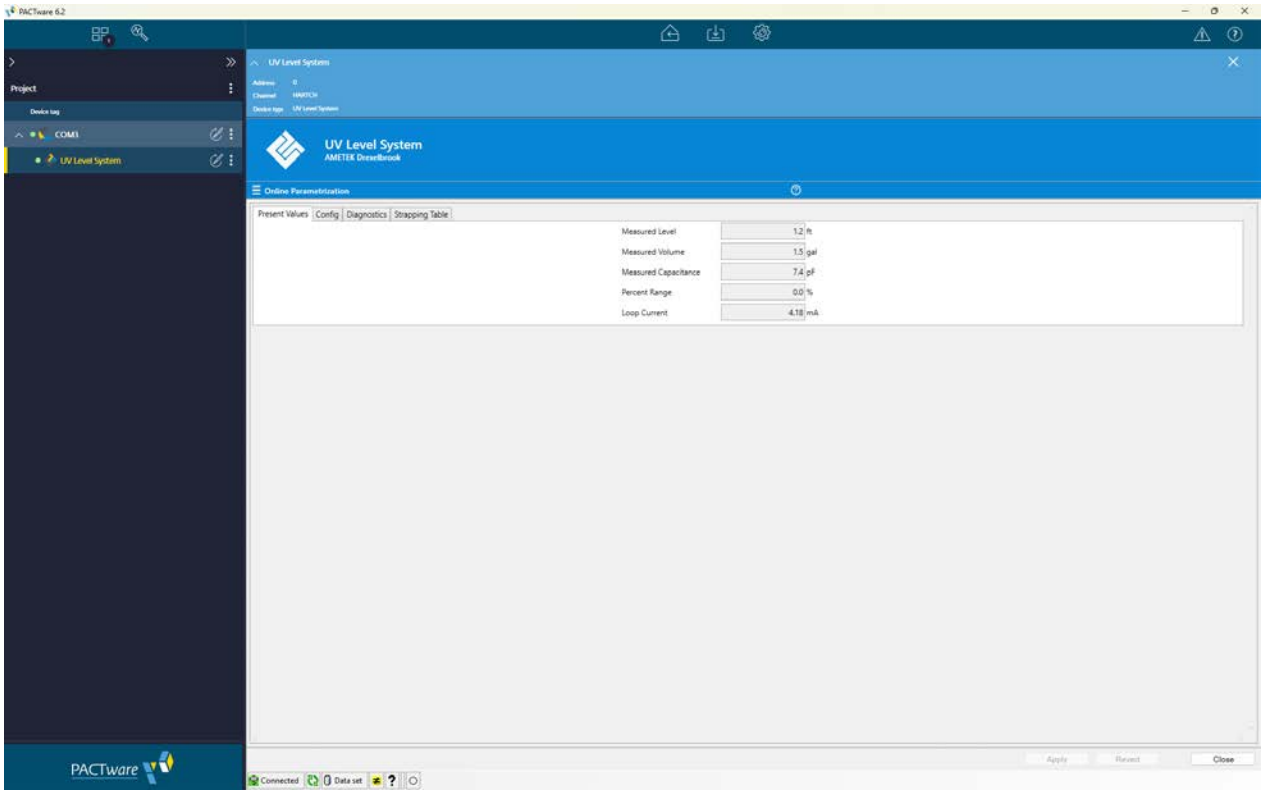


UV Level System

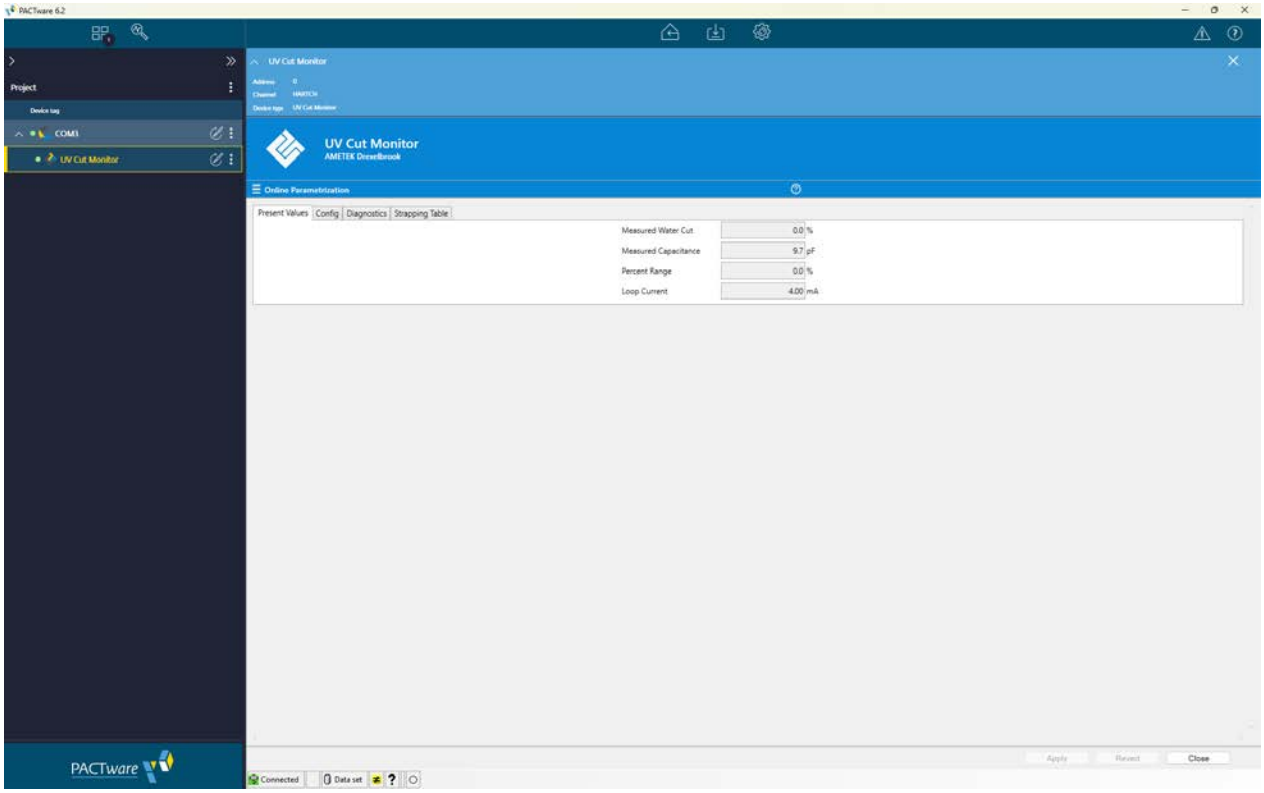


UV Cut Monitor

13. The FDI Package will initialize and display the UI for the connected device. Shown below is the Live Values of the transmitter.

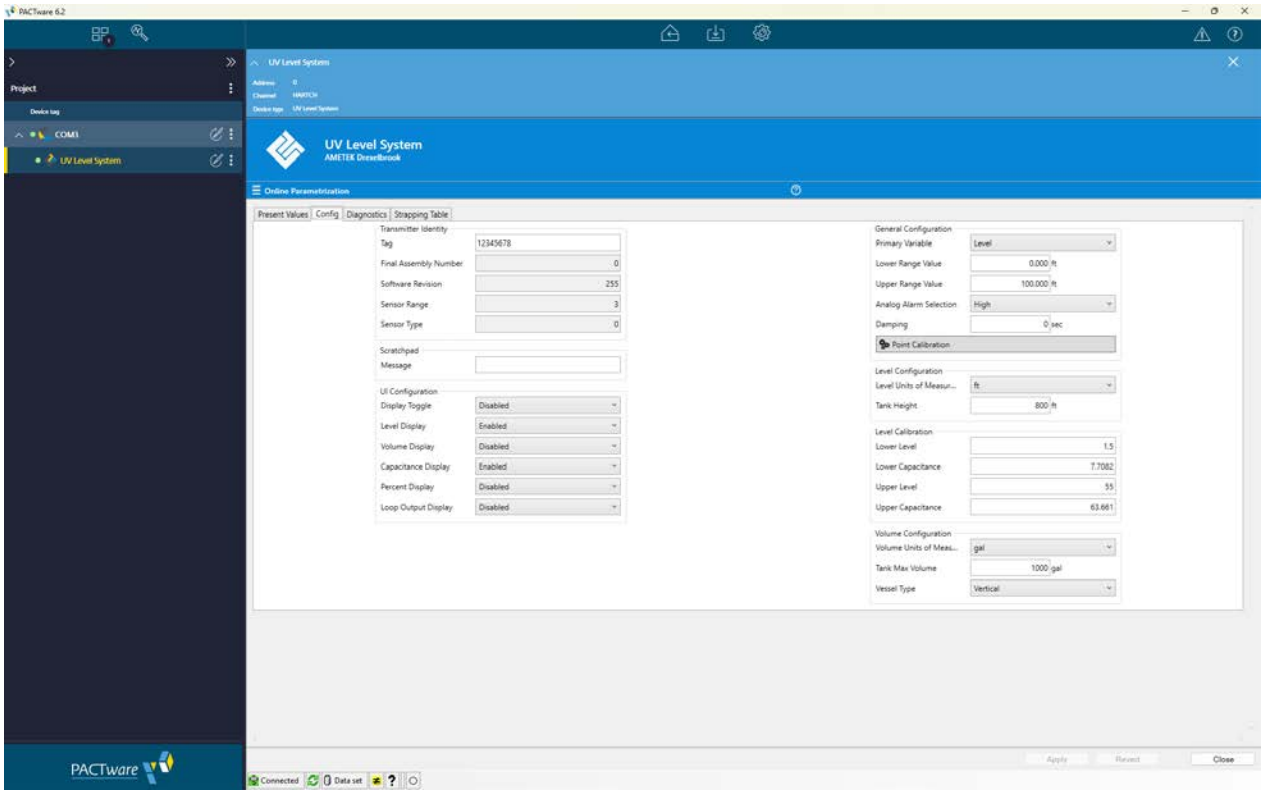


UV Level System

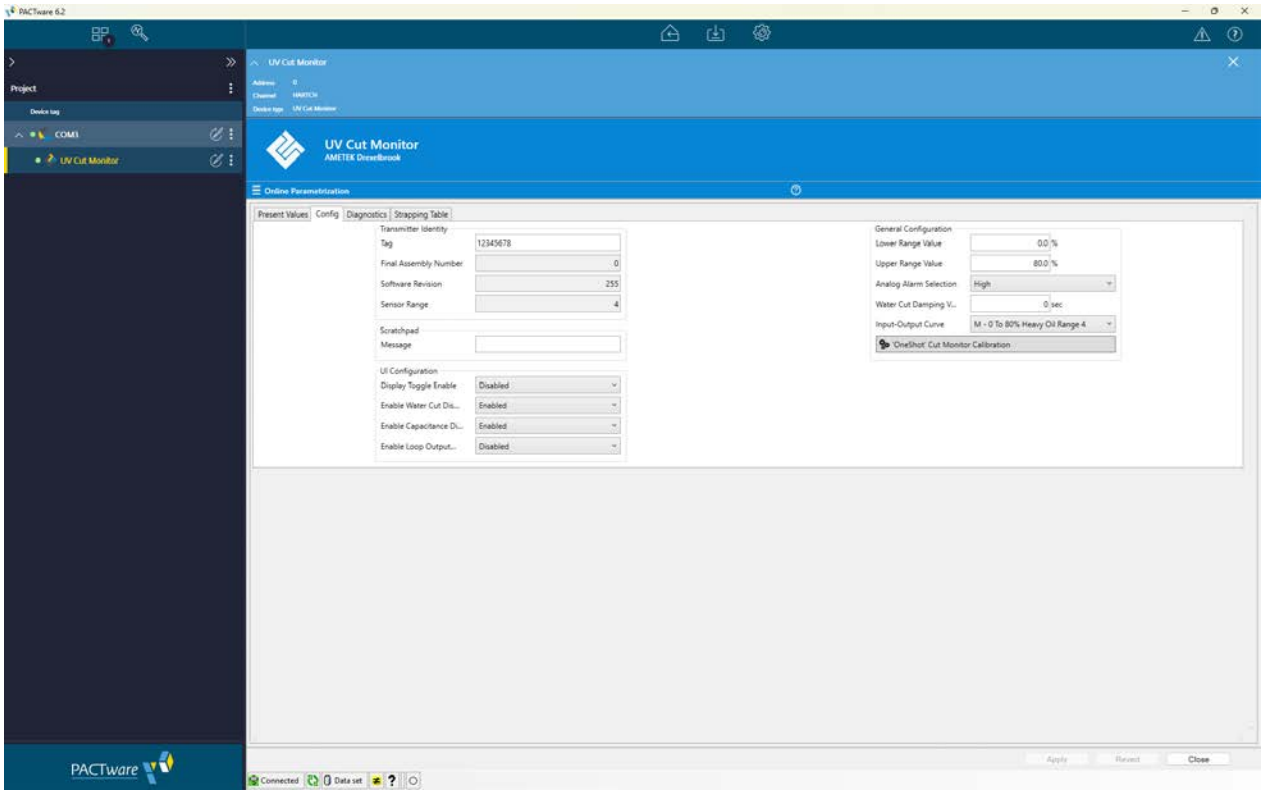


UV Cut Monitor

14. The “Config” screen displays the parameters and information that determine the operation of the device.

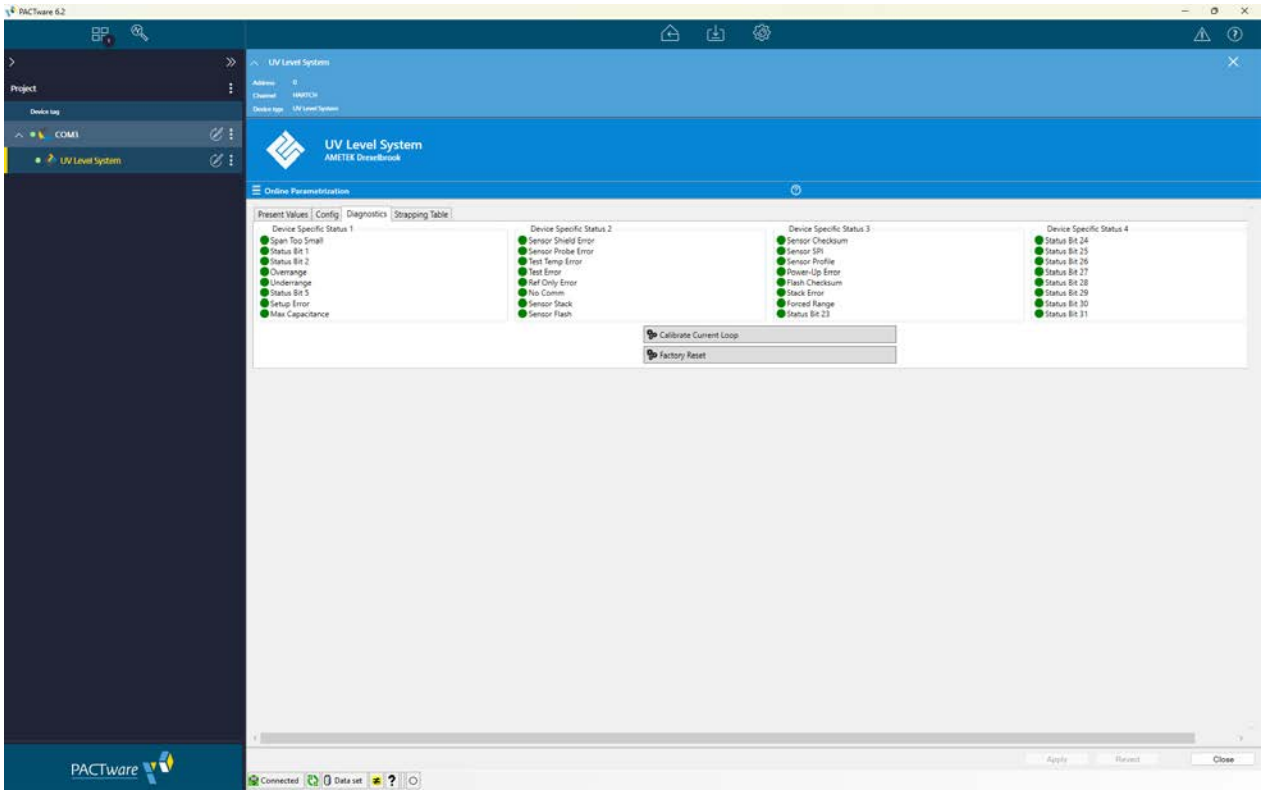


UV Level System

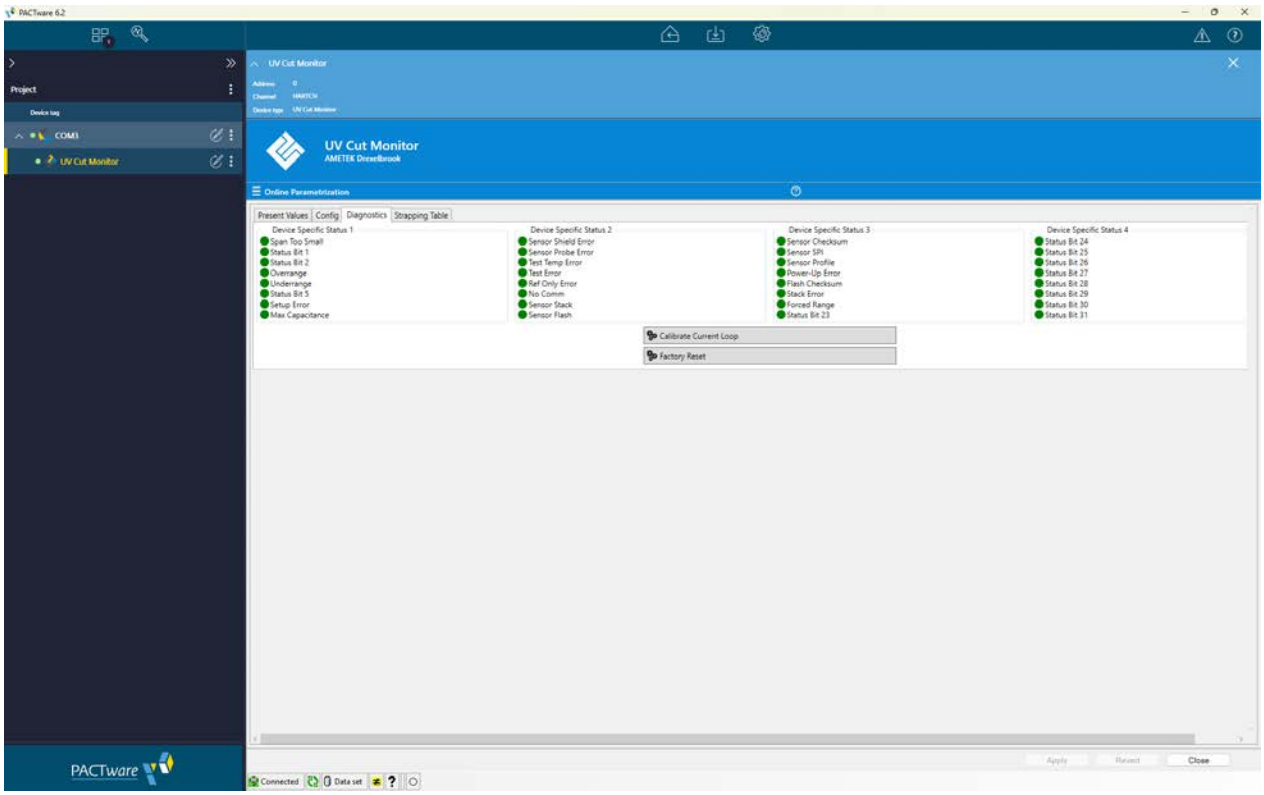


UV Cut Monitor

15. The Diagnostics screen enunciates any active diagnostics with a red LED. In this example, the device is presently in the “Underrange” diagnostic state, indicating the detected level is below the 4mA/LRV setpoint.

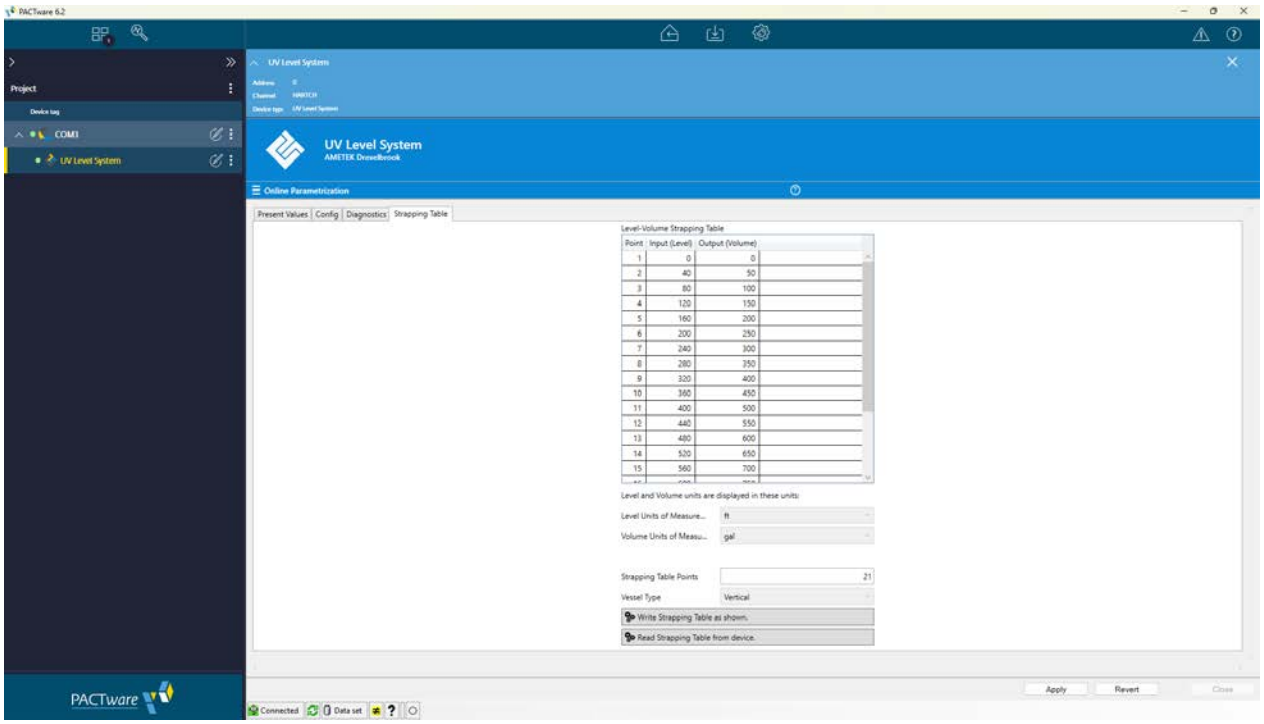


UV Level System

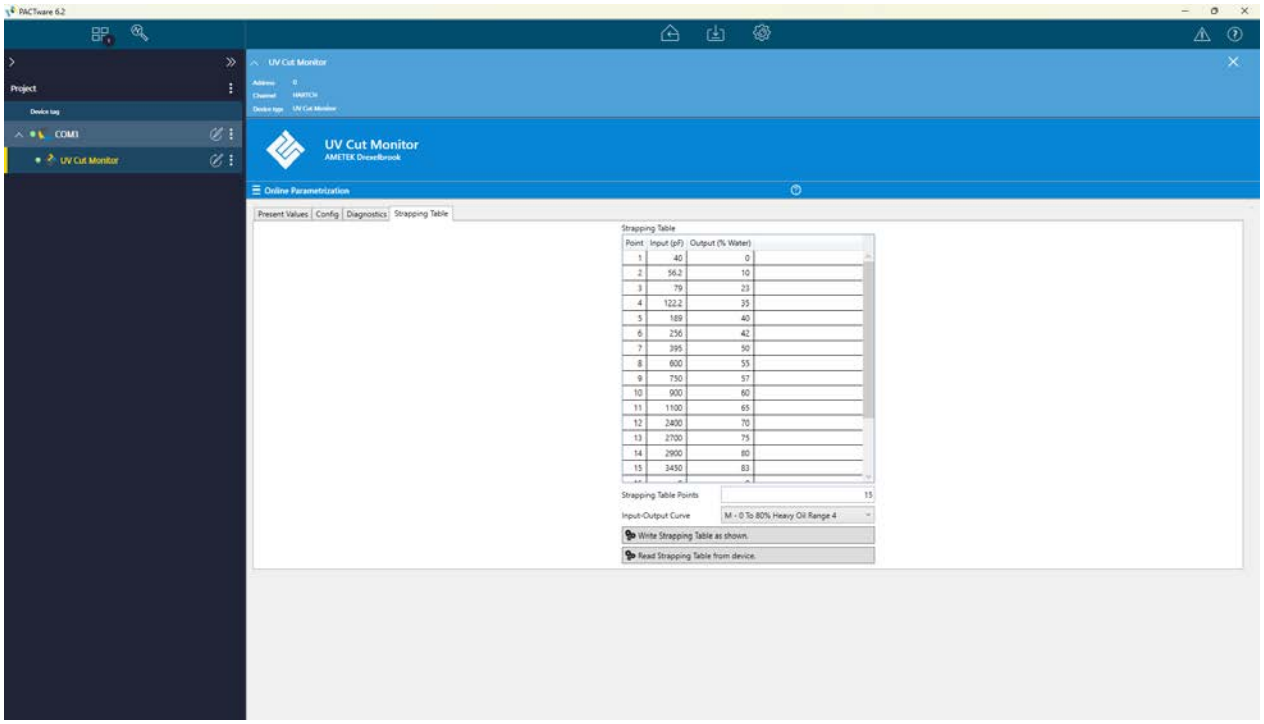


UV Cut Monitor

16. Additionally, there is a menu for inspecting and editing the device's Strapping Table.

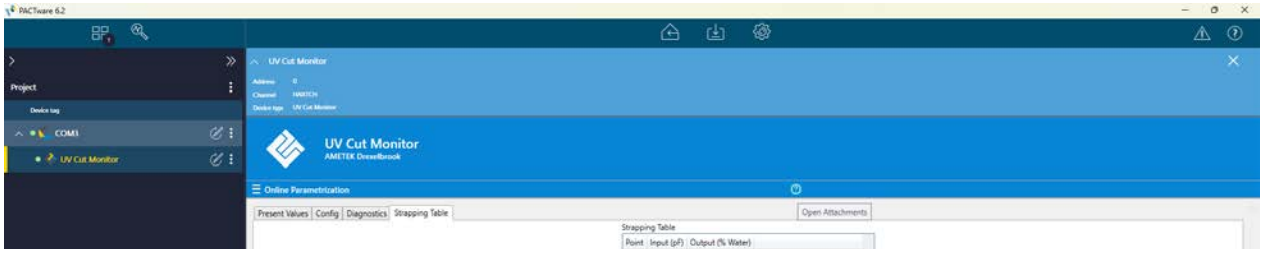


UV Level System

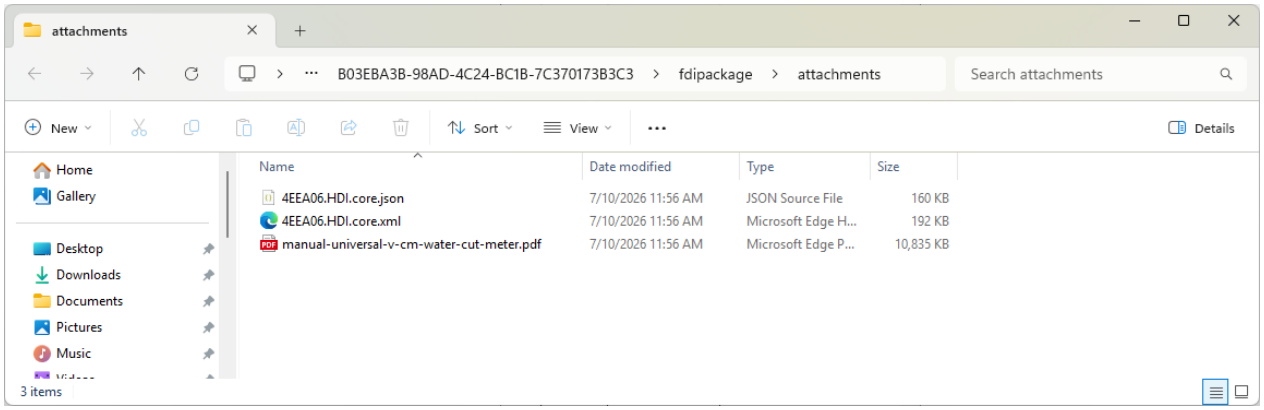


UV Cut Monitor

17. The Question Mark symbol that can be clicked to open the attachments of the FDI Package.



18. Windows Explorer will open a directory that contains reference information for the product, including the product's manual.



NAMUR Alarm Output Configuration

The ALARM (Analog Alarm Selection) parameter in the OUTPUT menu selects the analog output current used when the transmitter enters an alarm condition:

The chart below identifies the parameter location for each product. Only the NAMUR alarm output selections are shown here; refer to the applicable instruction manual section for the complete menu tree.

Product	Menu Tree Reference	OUTPUT Menu	ALARM Parameter
Universal V Pro/Lite	Section 3.12	Fct 4.00	Fct 4.09
Universal V Cut Monitor (CM)	Section 3.8	Fct 5.00	Fct 5.09
Universal V Cut Monitor with Temperture Compensation (CMT)	Section 3.8	Fct 4.00	Fct 4.10

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