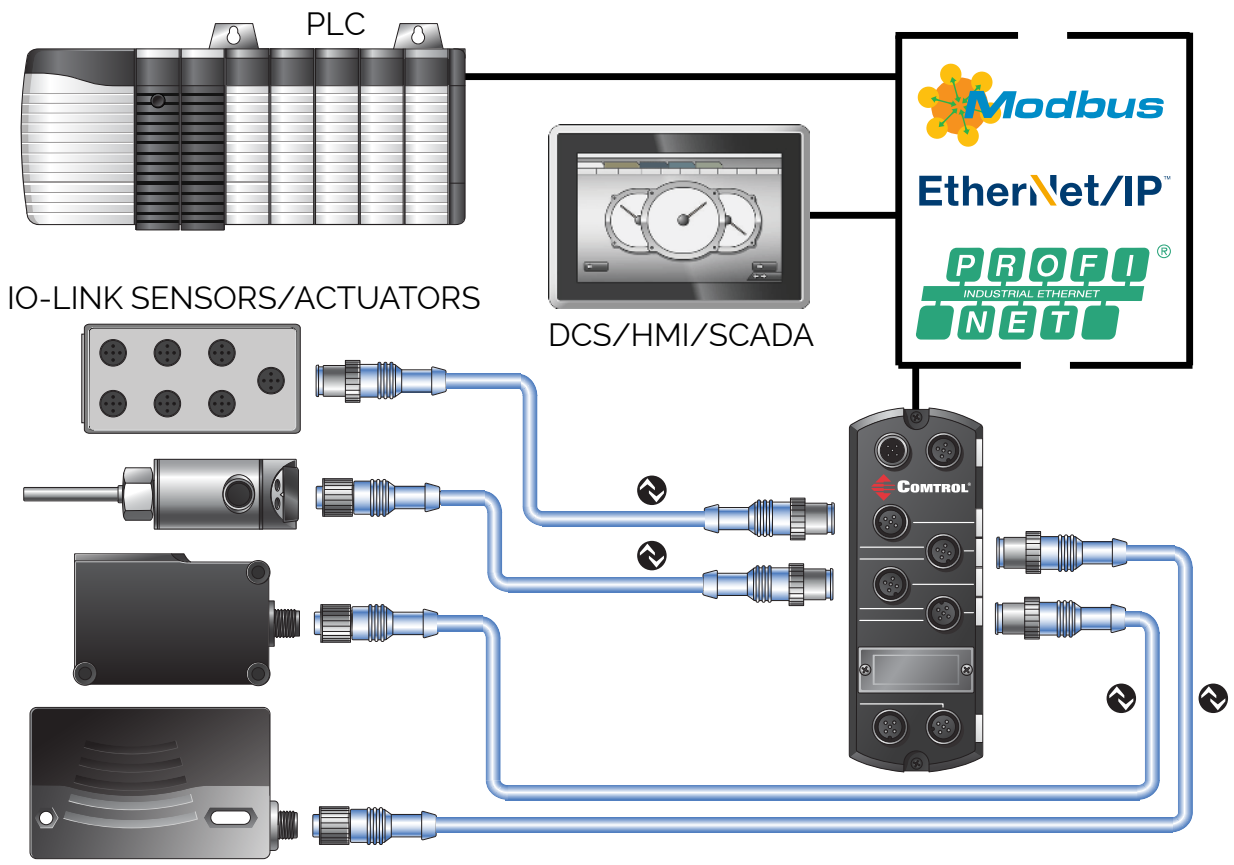
COMTROL®

IO-LINK MASTER
COMPATIBILITY REPORT

Device Validation: ifm PN7004 Pressure Sensor

with the ifm PN7594 Pressure Sensor



Contents

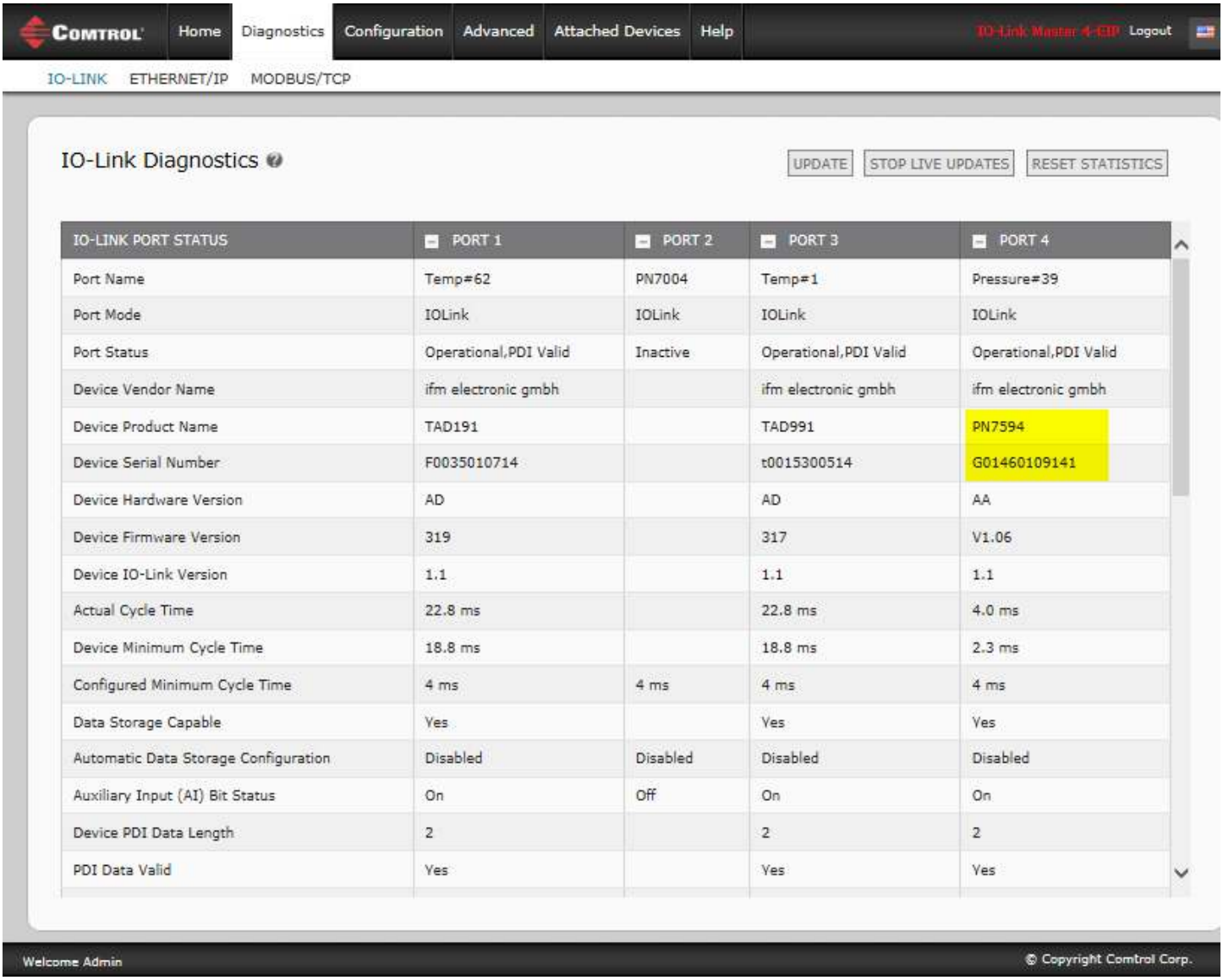
Test Report Overview

This report illustrates another way to implement the **Device Validation (Compatibility)** feature in the Comtrol IO-Link Master. It shows how to replace a PN7004 pressure sensor with a PN7594 pressure sensor. The port where the PN7004 resides can be configured for **Compatible Device Validation** mode to operate with using the PN7594 and the PN7004 IODD file.

Please note: *A PN7004 sensor was not available but the IODD files for PN7004 were loaded using the **Attached Devices** | **IODD Files** page.*

IO-Link Master - IO-Link Diagnostics Page

The **IO-Link Diagnostics** page shows that Port 2 is not active (no device attached) and Port 4 shows the PN7594.

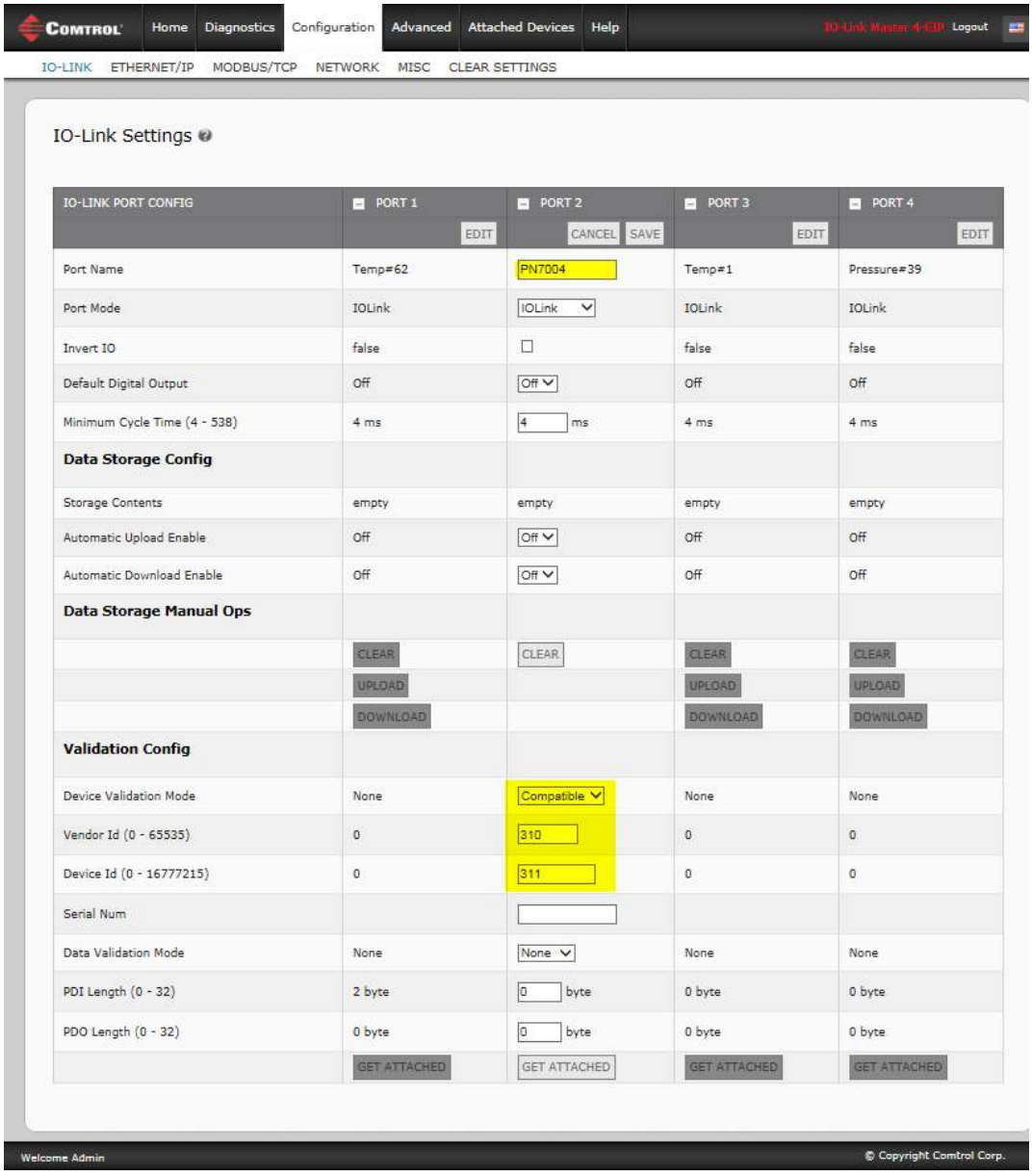


IO-LINK PORT STATUS	PORT 1	PORT 2	PORT 3	PORT 4
Port Name	Temp#62	PN7004	Temp#1	Pressure#39
Port Mode	IOLink	IOLink	IOLink	IOLink
Port Status	Operational,PDI Valid	Inactive	Operational,PDI Valid	Operational,PDI Valid
Device Vendor Name	ifm electronic gmbh		ifm electronic gmbh	ifm electronic gmbh
Device Product Name	TAD191		TAD991	PN7594
Device Serial Number	F0035010714		t0015300514	G01460109141
Device Hardware Version	AD		AD	AA
Device Firmware Version	319		317	V1.06
Device IO-Link Version	1.1		1.1	1.1
Actual Cycle Time	22.8 ms		22.8 ms	4.0 ms
Device Minimum Cycle Time	18.8 ms		18.8 ms	2.3 ms
Configured Minimum Cycle Time	4 ms	4 ms	4 ms	4 ms
Data Storage Capable	Yes		Yes	Yes
Automatic Data Storage Configuration	Disabled	Disabled	Disabled	Disabled
Auxiliary Input (AI) Bit Status	On	Off	On	On
Device PDI Data Length	2		2	2
PDI Data Valid	Yes		Yes	Yes

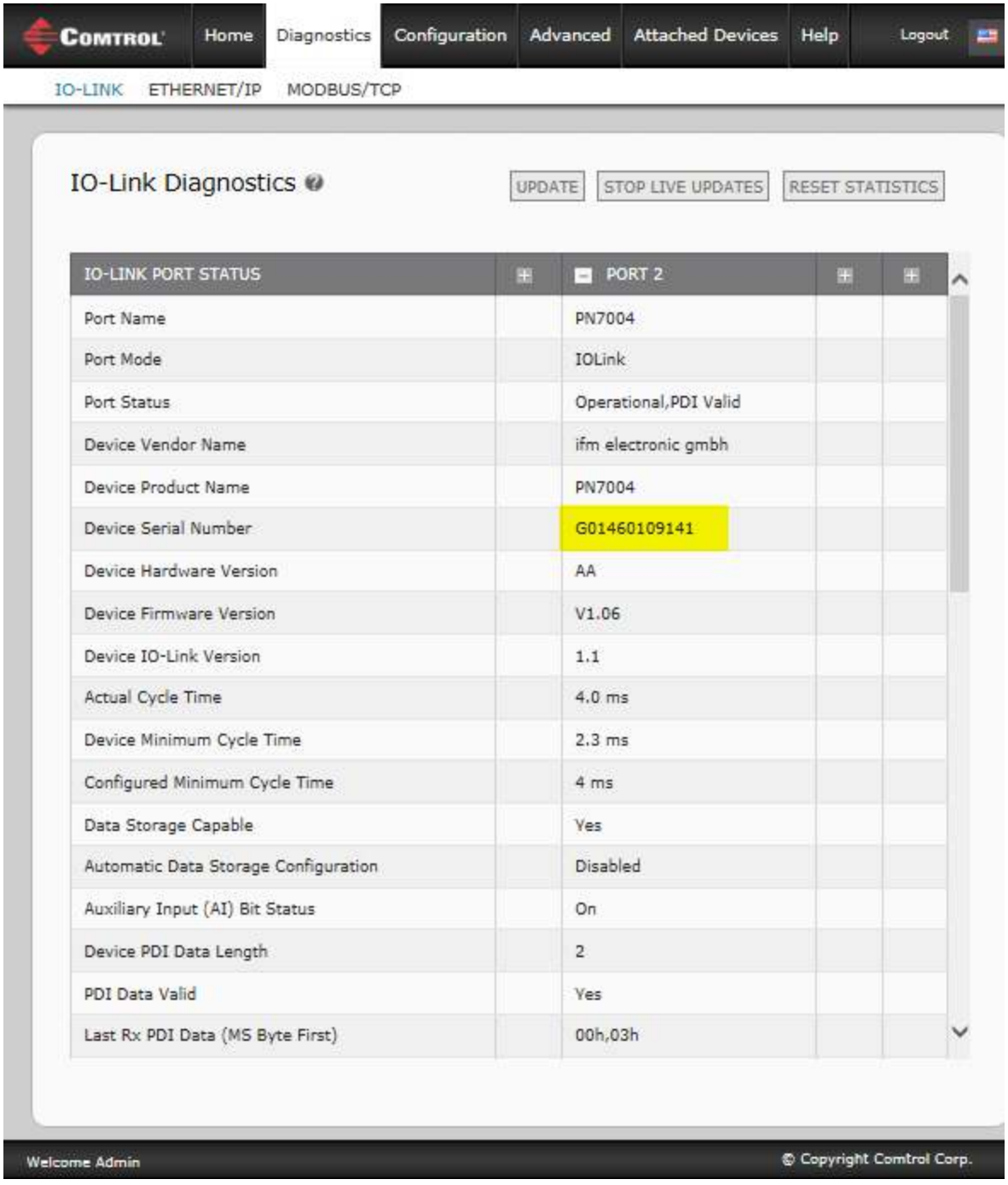
Port 2 – Device Validation Mode Configuration

This illustrates how to configure a port with a PN7004 pressure sensor to operate if a PN7594 is connected to the port.

1. Open your browser and enter the IO-Link Master IP address.
2. Click **Configuration** | **IO-Link**.
3. Click **EDIT** on the appropriate port.
4. Select **Compatible** for the **Device Validation Mode**.
5. Enter the **Vendor ID**, in this example the **Vendor ID** is 310.
6. Enter the **Device ID** for the sensor that is permitted to operate on this port. In this example, the **Device ID** is 311 (PN7594).
7. Click **SAVE**.



8. Connect the PN7594 pressure sensor (from Port 4) to Port 2.
9. Click **Diagnostics** | **IO-Link** and notice the following:
   - Port 2 shows a PN7004 that is operational with valid PDI
   - The serial number is the PN7594 that was on Port 4.

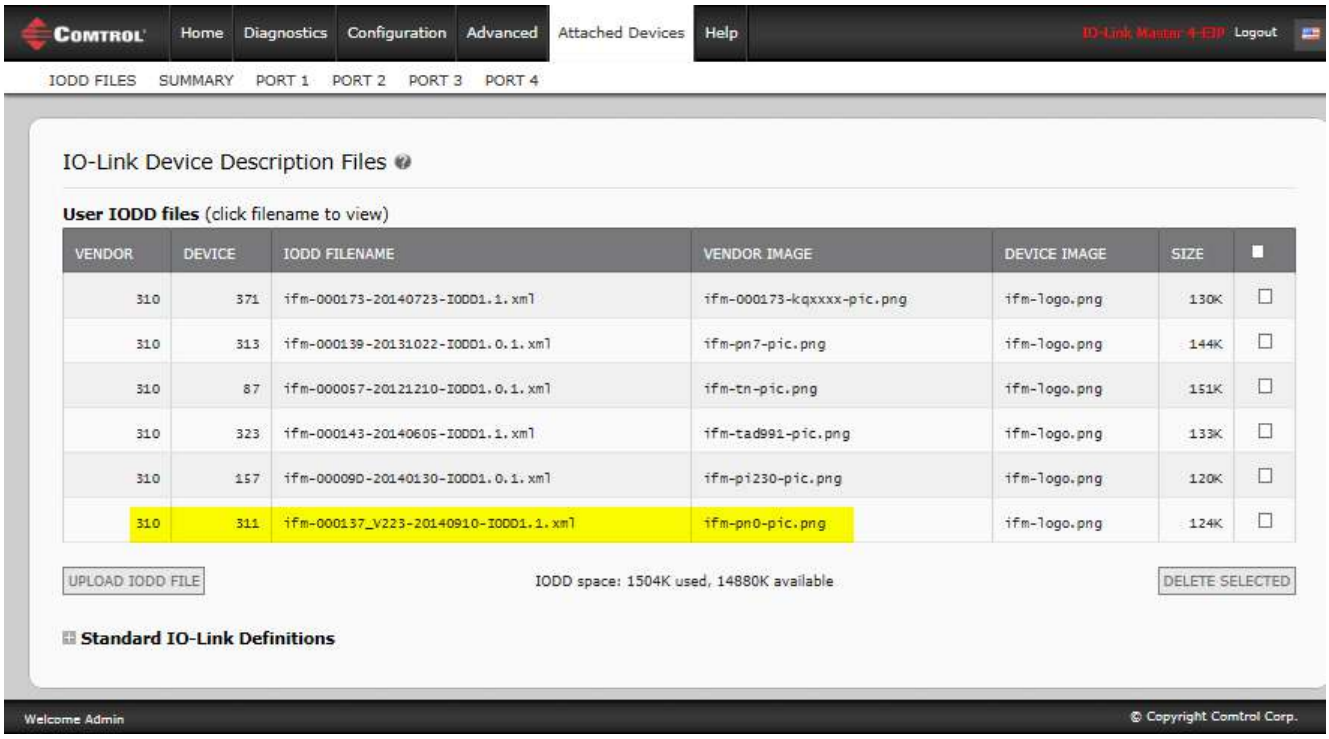


10. In the event that you need to review or change the PN7594 parameters, you do not even need to load the IODD files for the PN7594.

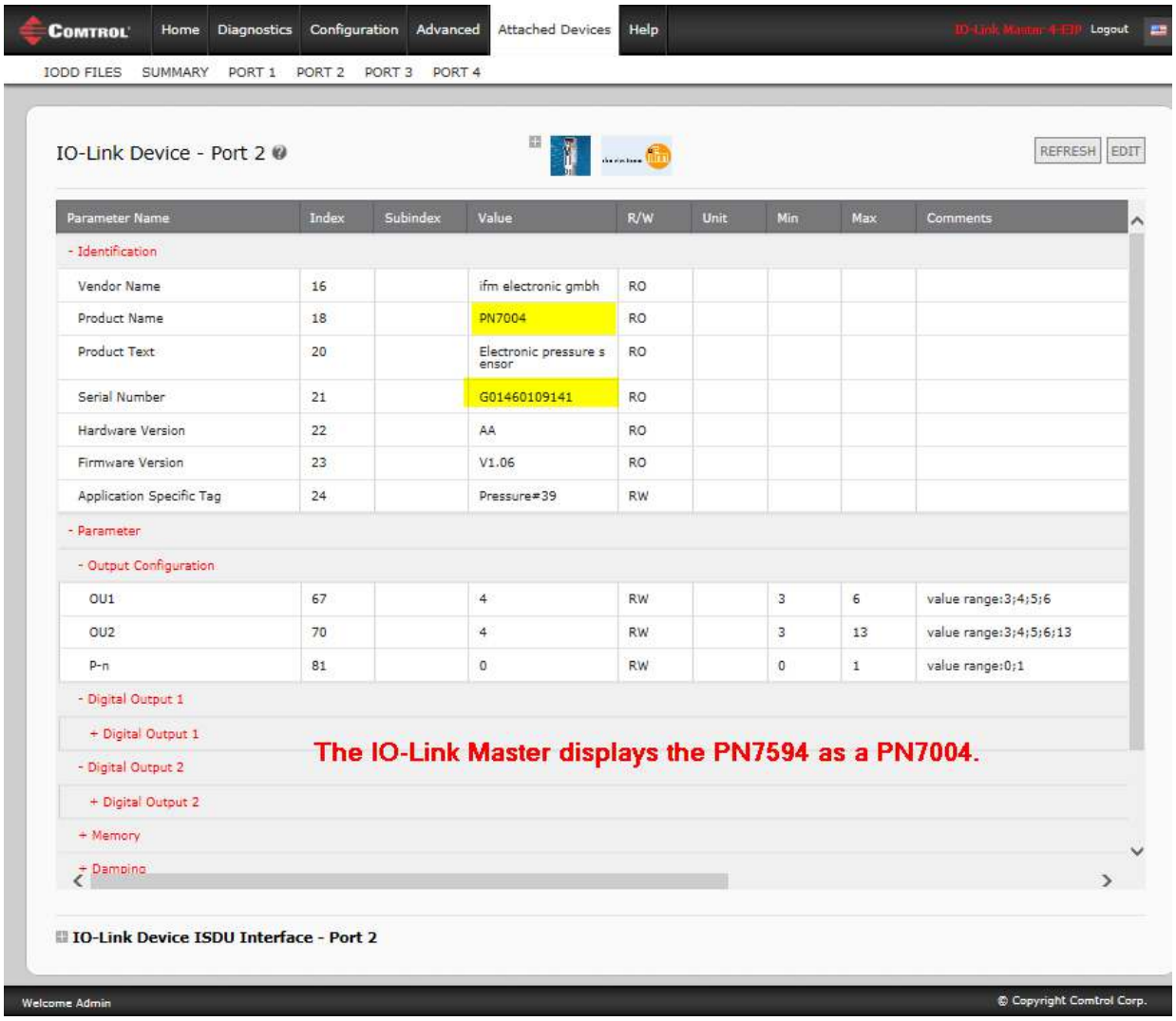
Reviewing or Changing the PN7594 Configuration

If the IODD files for the PN7004 were loaded to configure the PN7004, the PN7594 does not require the IODD files for configuration.

1. This illustrates the IODD files loaded on this IO-Link Master. The IODD files for the PN7594 are not loaded.



2. Click **Port 2** to review the PN7594 configuration using the PN7004 IODD files.



3. The highlighted areas show that several parameters were changed.