

**LAN INTERFACE RETROFIT MANUAL FOR
PHV Series High Voltage
POWER SUPPLY**

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1. GENERAL INFORMATION

1.1. Manual Content

This Manual contains installation instructions for the LAN interface module for the TDK-Lambda PHV series precision high voltage power supply. The instructions refer to standard power supply models that already feature a digital remote interface and have an existing ADDA module installed on the main control PCB. The LAN module kit is TDK-Lambda part 12550002.

Follow the steps in sections 1.3 through 1.11.

1.2. Kit Contents

The kit includes the LAN module circuit board ONLY.

1.3. Installation Instructions

Read these instructions fully before commencing installation of the LAN module.

1.4. AC Power

Disconnect AC power and load from the unit and allow it to stand for 60 minutes before starting installation.

1.5. Remove Covers

Remove the screws from the top and side covers (see items 1, 2, and 4 in Figure 1). Slide the covers out of the chassis supports. Now the user should have access to the internal circuit boards.

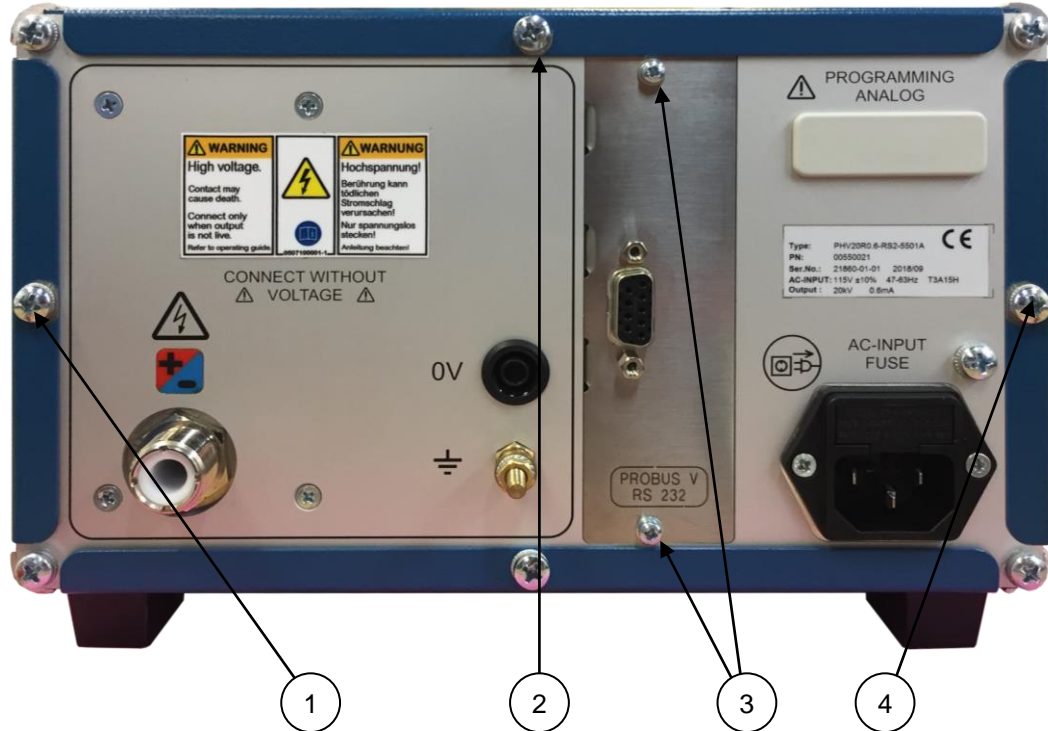


Figure 1. PHV Rear View.

1.6. Unplug Fiber Cables

From the top of the unit, the digital interface card should be visible. Carefully unplug the grey and black fiber optic cables that connect the interface to the ADDA module on the control board. Also disconnect the bias power from the main power supply to the digital interface board.

1.7. Remove Digital Interface

Remove the screws mounting the digital interface board to the rear panel of the unit (item 3 in Figure 1), and withdraw the card from the chassis.

1.8. Install Replacement Interface

Locate the replacement interface converter board, and install in the slot in the rear of the unit. Replace the screws (item 3 in Figure 1).

1.9. Replace Fibers

Replace the two fiber optic cables in the connectors, ensuring the colors (black and grey) are correctly matched to the fiber receptacles. Replace the DC power connection.

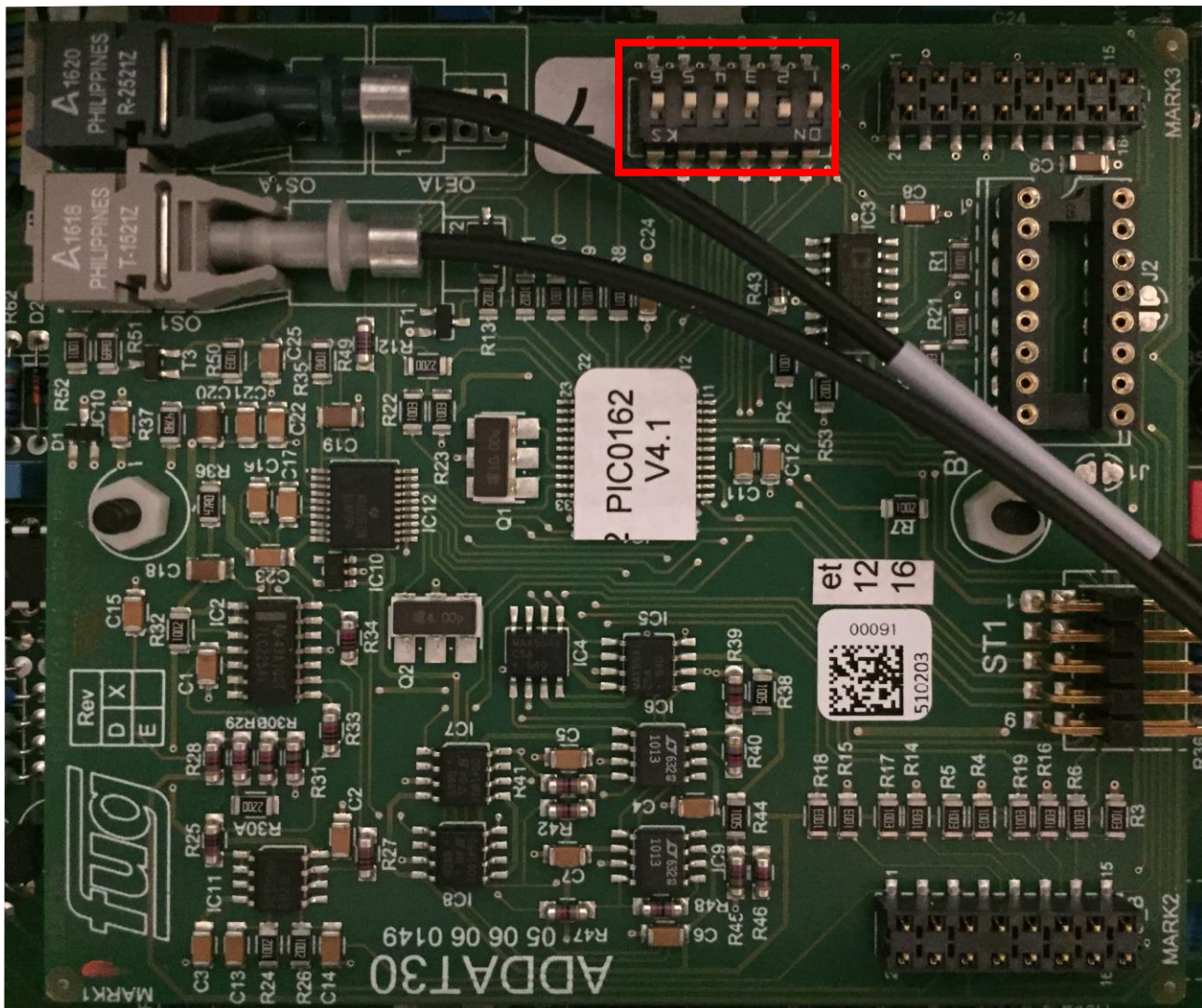


Figure 2. ADDA Module with DIP switches highlighted.

1.10. Set ADDA DIP Switch

Locate the ADDA module on the control board by removing the side panel, and set the baud rate switches (see Figure 2). The baud rate setting for the LAN interface needs to be set to 230400 Baud.

To set the Baud rate, DIP switches 1 and 2 should be in the ON position, and the remaining four switches should be OFF. See Figure 3.

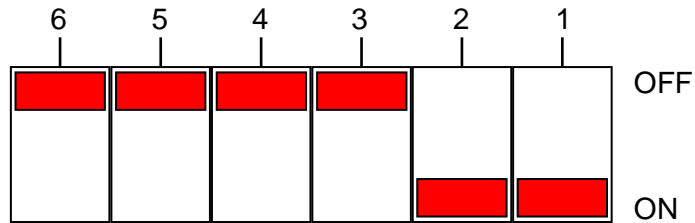


Figure 3. DIP switch positions for LAN Interface.

1.11. Replace Covers

Slide the top and side covers back in place and install the three screws. Now the installation is complete and the unit can be tested.