IEEE DIGITAL INTERFACE SETUP MANUAL FOR
PHV Series High Voltage
POWER SUPPLY
Document: 83550130 Rev A

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Table of Contents

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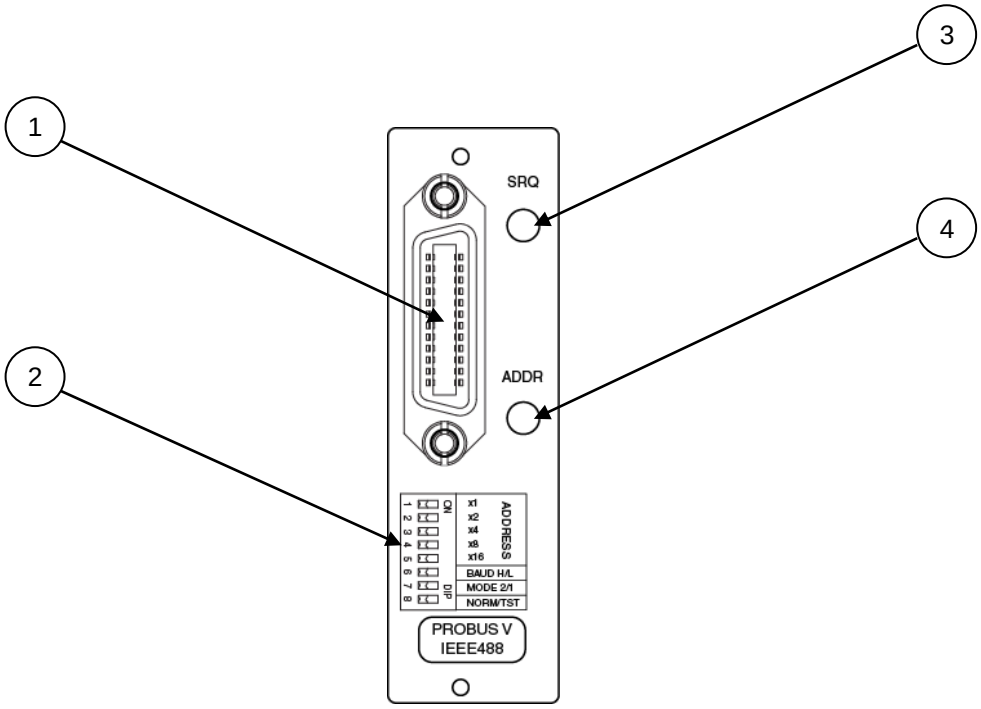
1. Overview

1.1. Scope

This manual applies to PHV series power supplies equipped with the IEEE digital interface option. The manual describes setting the GPIB interface address only.

The IEEE interface programming commands can be found in the Digital Interface Command Reference manual (document 83550100) downloadable from the PHV product page: http://www.us.tdk-lambda.com/hp/product_html/PHVpower.htm.

The IEEE interface is located on the rear panel of the power supply. A sketch is shown below.



IEEE Interface features

1- IEEE-488 interface connector

2- Configuration DIP switch (see section 2.1)

3- Interface Addressed LED (see section 1.2)

4- Service Request LED (see section 1.3

1.2. *ADDR* LED

This LED illuminates when the interface is either in listener addressed state or talker addressed state.

1.3. Service Request (*SRQ*) LED

This LED illuminates when the interface asserts the SRQ line. After a serial poll the LED extinguishes.

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2. Interface setup information

For normal operation, only the GPIB primary address should be adjusted using switches 1 through 5 if required. The other switches, 6 through 8 remain in the OFF position.

2.1. GPIB primary address (PA)

The GPIB primary address (PA) enables identification of all units connected to an IEEE-488 bus system, and each unit connected to the bus must be assigned a unique PA.

The Host PC usually has PA=0 and the connected units usually have addresses from 4 upwards. Normally PHV power supplies are factory configured with the PA set to 8.

The user can change the factory set PA via a DIP switch located on the IEEE-488 interface converter on the rear panel of the unit (see the figure on page 3). It is not necessary to open the power supply.

After changing a configuration switch, the power supply should be turned off for 5 seconds and turned on again.

To change the GPIB PA, the user should only change switches 1 through 5. The unit is factory set with switch 4 in the ON position and switches 1, 2, 3, and 5 are in the OFF position (PA=8).

The switch settings follow the binary system:

Switch 1 has value 1
Switch 2 has value 2
Switch 3 has value 4
Switch 4 has value 8
Switch 5 has value 16

Example: To set the GPIB PA to 9, Switches 1 and 4 are ON, switches 2, 3, and 5 are OFF. To set the GPIB PA to 20, Switches 3 and 5 are ON, switches 1, 2, and 4 are OFF.

2.2. Other DIP switch settings

DIP switches 6, 7, and 8 are special functions and are factory set to the OFF position and the settings should not be changed. Contact the factory for further information.