

GPIB515 – Serial ~ GPIB Converter

GPIB Converter for PPA500 and PPA1500 Power Analyzers

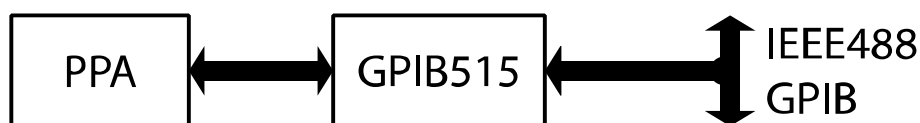


The GPIB515 provides the PPA500/1500 range with an IEEE 488.2 talker/listener interface over a General Purpose Interface Bus (GPIB).

This interface comprises two stages:

- A bidirectional serial link between the PPA and an 8-bit microcontroller
- An 8-bit parallel bus between the microcontroller and an NI TNT4882 ASIC

Two status LEDs provide power and communication information.

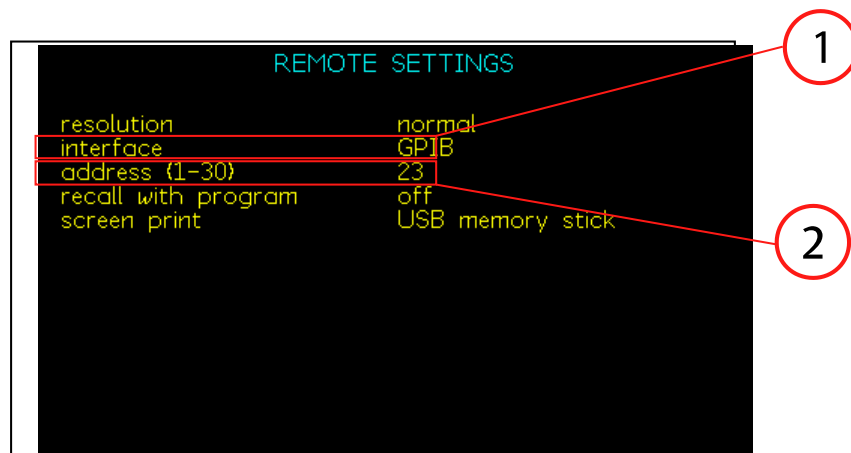


Specification

IEEE488.2	Supported	Notes
Serial Poll	✓	See PPA manual for register definitions
Parallel Poll	✗	
Group Execute Trigger	✓	
Secondary Addressing	✗	
EOS	✓	Terminate with Hex A or Hex D, not both
EOI	✓	Asserts at end of transmit string (Talker)
Common SCPI commands	✓	See PPA manual for full details

The GPIB515 should be connected to the AUX port of a PPA1500/500, using the shielded 8 way mini-DIN cable provided. The extension port is the primary power source for the GPIB515. In some applications, where a large number of devices are connected to the IEEE488 bus, it may be necessary to use an external 5V supply. Such a power supply is included with the GPIB515 (XP POWER – VEL05US050-UK-JA).

The GPIB515 will work with any PPA500 or PPA1500 with firmware version 2.68 or later.



Communication settings are under the remote menu, press the remote key to show available settings. First select GPIB from the interface drop down (1) and press ENTER. The address option (2) will appear, use this to set the GPIB address for your application.

