

External IEEE488.2 (GPIB) / LAN Option

Features:

- Compatible with all IEEE-488.2 (GPIB) and 100/10 Ethernet systems.
- Operates in GPIB Device or Controller.
- Automatically configured by Cryo-con instruments.
- Field install at any time.
- High speed. Does not sacrifice GPIB performance.
- Electrically isolated to eliminate the ground loops and noise pickup.
- Very low noise connection to the instrument.
- Works with existing Cryo-con LabView™ drivers and utility software.
- Does not sacrifice the LAN interface.

Applications:

The Cryo-con IEEE-488.2 (GPIB) option is a GPIB-to-Ethernet converter that will operate in either a Device or Controller mode. It is completely transparent to the GPIB system and offers high speed, multiple device support, electrical isolation and very low noise.



In it's **Device** mode, the converter's Ethernet interface plugs into the Ethernet port of any enabled Cryo-con instrument. The converter is completely configured by the instrument and can easily be changed from the front panel. Operation is invisible to the user compared to the internal GPIB circuitry used in older instruments. To the system controller, the interface appears as any other GPIB device. New Cryo-con instruments do not implement internal GPIB circuits because the older technology used by these systems is very susceptible to ground-loop currents and electrical noise pickup. The external option approach is functionally equivalent, but provides the electrical isolation and low noise characteristics of modern Ethernet based systems.



In it's **Controller** mode, the converter's 100/10 Ethernet port plugs into your computer allows it to act as a GPIB system controller. It can be plugged directly into an instrument or act as a controller for up to the 31 devices that the GPIB specification allows. Communication with your computer is via TCP/IP, allowing easy interface with data acquisition programs including LabView. Since the Cryo-con Model 32 series controllers do not have an Ethernet interface, the converter is a simple and inexpensive way to add full featured 100/10 Ethernet TCP/IP support.

Ordering Information:

| Part Number | Description |
|-------------|--|
| 4001-002 | External IEEE-488.2 (GPIB) for Cryo-con instruments with an Ethernet port. |
| 4001-003 | External Ethernet option for Cryo-con instruments with a GPIB port. |