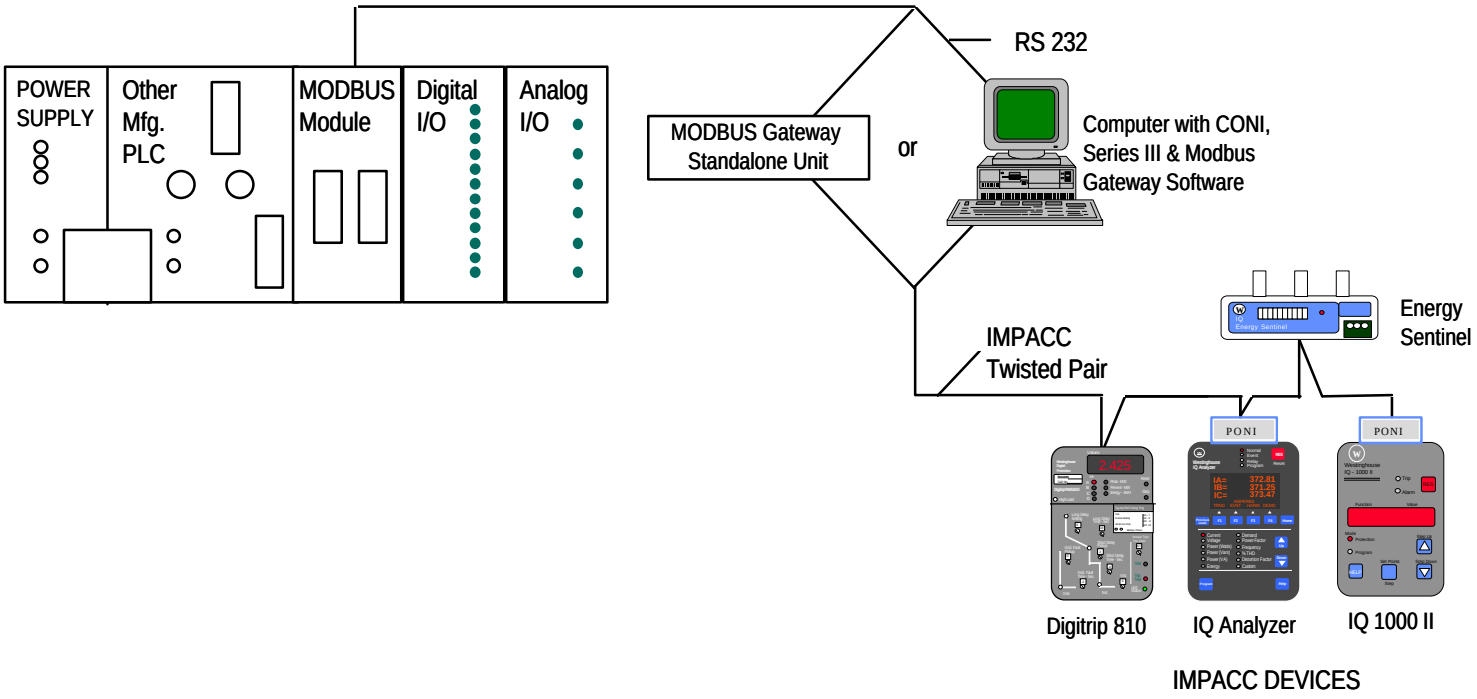
Connecting to Programmable Logic Controllers - Modbus Gateway

Interface Manufacturer Cutler-Hammer

Supports All IMPACC Devices (waveform data from the IQ Analyzera nd Digitrip 910 is not supported)

IMPACC can be connected to any system with the ability to communicate using the Modbus protocol. This is done through the Modbus Gateway. The Modbus Gateway translates the INCOM signal to Modbus protocol and communicates it to the master system over the RS232 transmission media, using RTU transmission mode. Modbus is a widely used protocol for which the majority of Programmable Logic Controllers have a standard interface. Note: The Modbus Gateway supports up to 200 IMPACC devices.



Status 6/96 Tested

Distribution & Control Bill of Material*
- Modbus Gateway Standalone Unit or Computer with Series III and Modbus Add-on Software
- IMPACC Devices
- PONIs (where necessary)

Contact Advanced Product Support Center
800/809-2772

Application Note IMPACC Wiring Specification - TD 17513, Modbus Gateway Manual - IL17545

*NOTE: Complete Bill of Material must also include hardware/software from other vendors

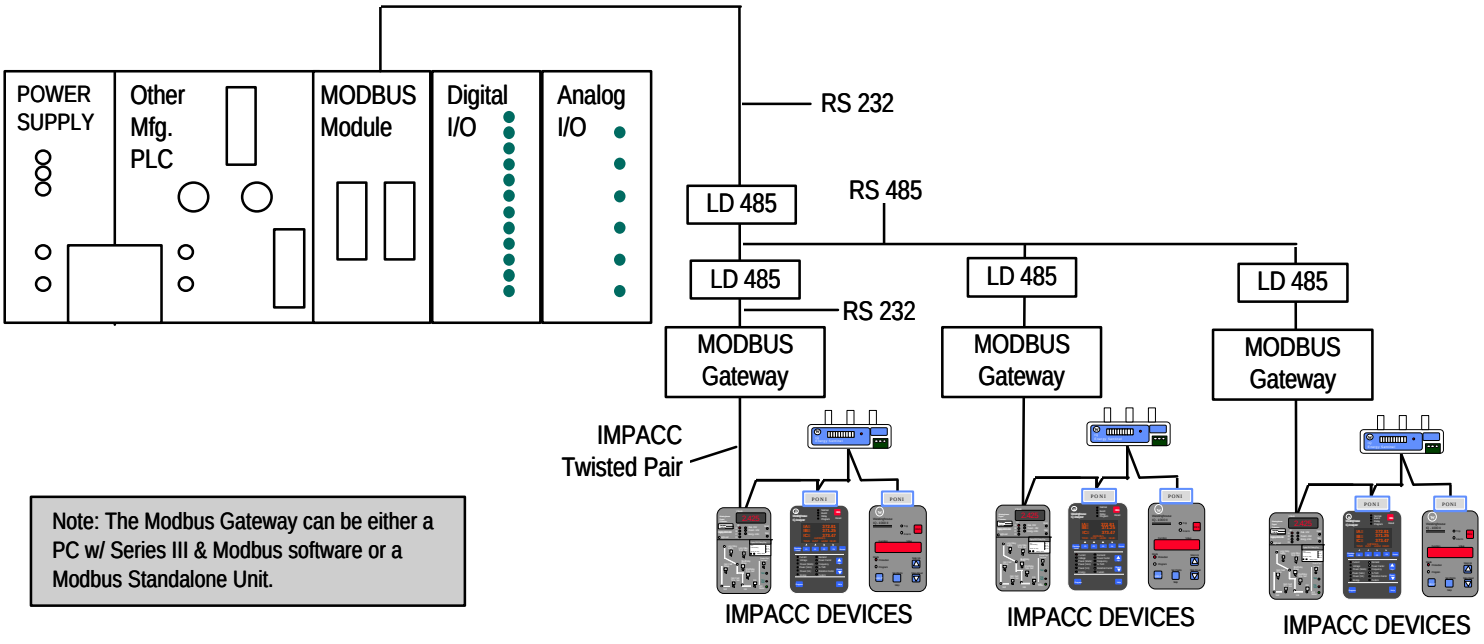
Connecting to Programmable Logic Controllers: Multi-Drop Modbus

Interface Manufacturer Cutler-Hammer

Supports All IMPACC Devices (waveform data from the IQ Analyzerand the Digitrip 910 is not supported)

IMPACC can be connected to any system with the ability to communicate using the Modbus protocol, (please see page 6-1 for more details on Modbus interface.)

Due to the point to point wiring restrictions associated with RS 232, RS 232 to RS 485 line drivers must be used to tie multiple Modbus Gateways back to a single PLC interface.



Note: The Modbus Gateway can be either a PC w/ Series III & Modbus software or a Modbus Standalone Unit.

Status 6/96 Tested

Distribution & Control Bill of Material*
- Modbus Gateway Standalone Unit or Computer with Series III and Modbus Add-on Software
- IMPACC Devices
- PONIs (where necessary)

Contact Advanced Product Support Center
800/809-2772

Application Note IMPACC Wiring Specification - TD 17513, Modbus Gateway Manual - IL17545

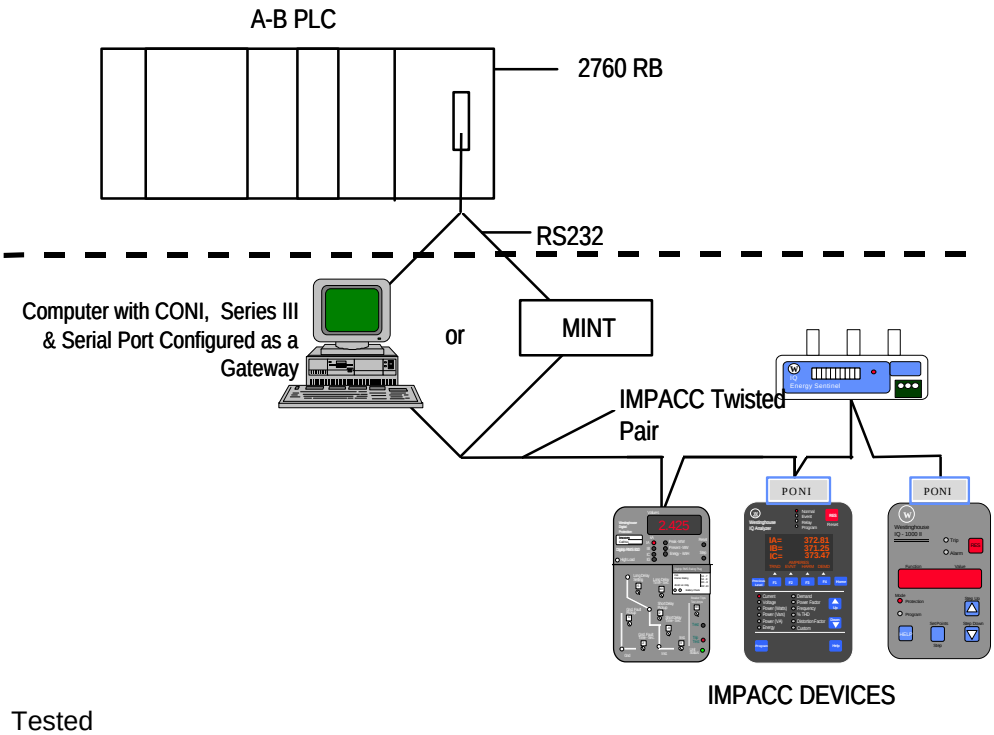
*NOTE: Complete Bill of Material must also include hardware/software from other vendors

Connecting to ALLEN BRADLEY - PLC 5, PLC 3, PLC 2

Interface Manufacturer C & I Systems

Supports Driver (supports or can be modified to support) all IMPACC Devices

A driver has been written by a third party system house that allows the Allen Bradley PLC to act as a master on the IMPACC network. This is done through a software driver loaded into the A-B 2760-RB module. This card is defined by A-B as a "flexible interface module," which has an RS 232 port, and operates on the A-B 1771 Universal I/O rack. This particular driver also adds additional capabilities for the user, such as manual/auto polling.



Status 6/96 Tested

Distribution & Control Bill of Material*
- MINT or Computer with Series III and a CONI (serial port configured as a Gateway)
- IMPACC Devices
- PONIs (where necessary)

Contact
C&I Systems
5232 W. Oklahoma Ave.
Milwaukee, WI 53219
414/546-3335

Application Note IMPACC Wiring Specification - TD 17513

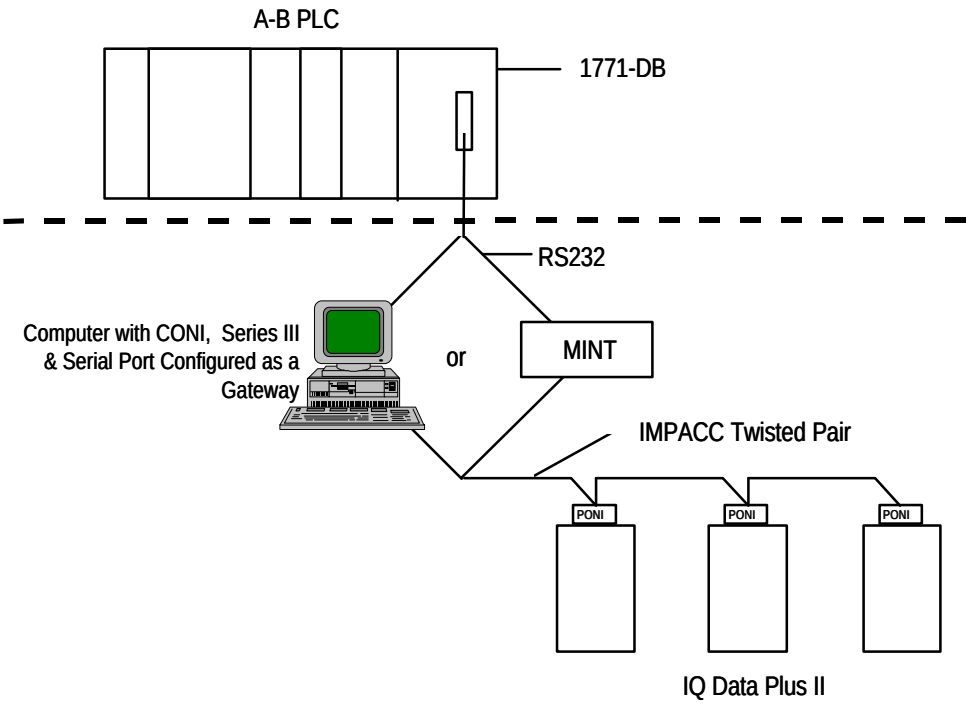
*NOTE: Complete Bill of Material must also include hardware/software from other vendors

Connecting to ALLEN BRADLEY - PLC 5, PLC 3, PLC 2

Interface Manufacturer ProSoft

Supports IQ Data Plus II

A driver has been written by a third party system house that allows the Allen-Bradley PLC to act as a master on the IMPACC network. This is done through a software driver loaded into the A-B 1771-DB module. This is a BASIC co-processor module with an RS232 port, and operates on the A-B 1771 Universal I/O rack.



Status 6/96 Tested

Distribution & Control Bill of Material*
- MINT or Computer with Series III and a CONI (serial port configured as a Gateway)
- IQ Data Plus II's
- PONIs

Contact
ProSoft
5100 California Ave.
Bakersfield, CA 93309
805/327-7066

Application Note IMPACC Wiring Specification - TD 17513

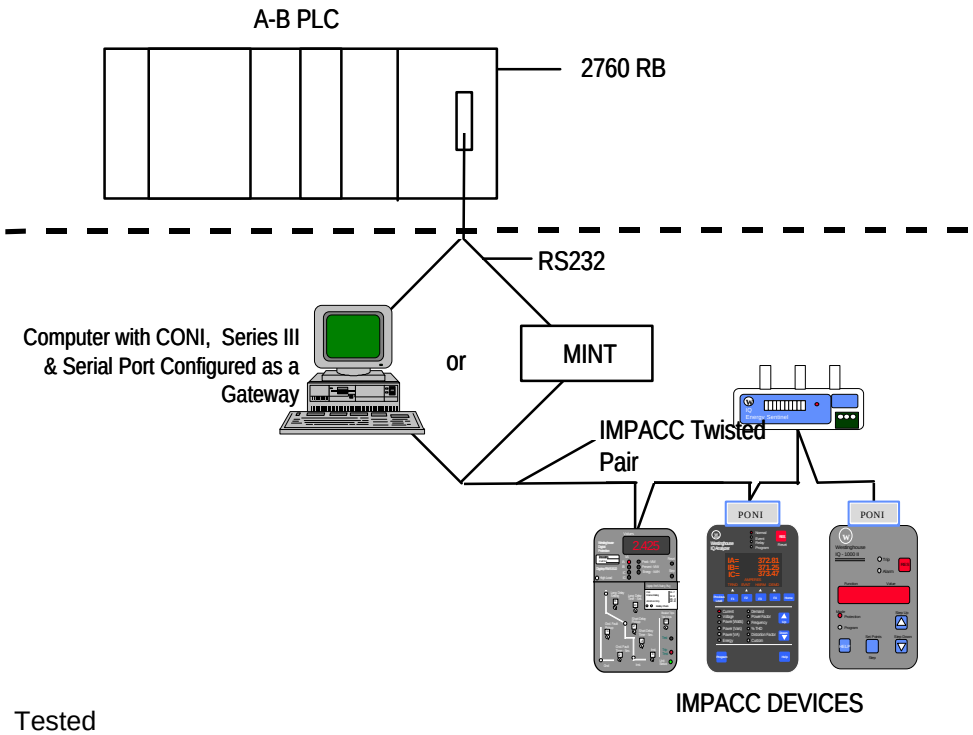
*NOTE: Complete Bill of Material must also include hardware/software from other vendors

Connecting to ALLEN BRADLEY - PLC 5, PLC 3, PLC 2

Interface Manufacturer Instrument Controls, Inc.

Supports Driver (supports or can be modified to support) all IMPACC devices

A driver has been written by a third party system house that allows the Allen Bradley PLC to act as a master on the IMPACC network. This is done through a software driver loaded into the A-B 2760-RB module. This card is defined by A-B as a "flexible interface module," which has an RS 232 port, and operates on the A-B 1771 Universal I/O rack. This particular driver also adds additional capabilities for the user, such as manual/auto polling.



Status 6/96 Tested

Distribution & Control Bill of Material*
- MINT or Computer with Series III and a CONI (serial port configured as a Gateway)
- IMPACC Devices
- PONIs (where necessary)

Contact
Instrument Controls, Inc.
P.O. Box 7126
Pensacola, FL 32534
904/968-2191

Application Note IMPACC Wiring Specification - TD 17513

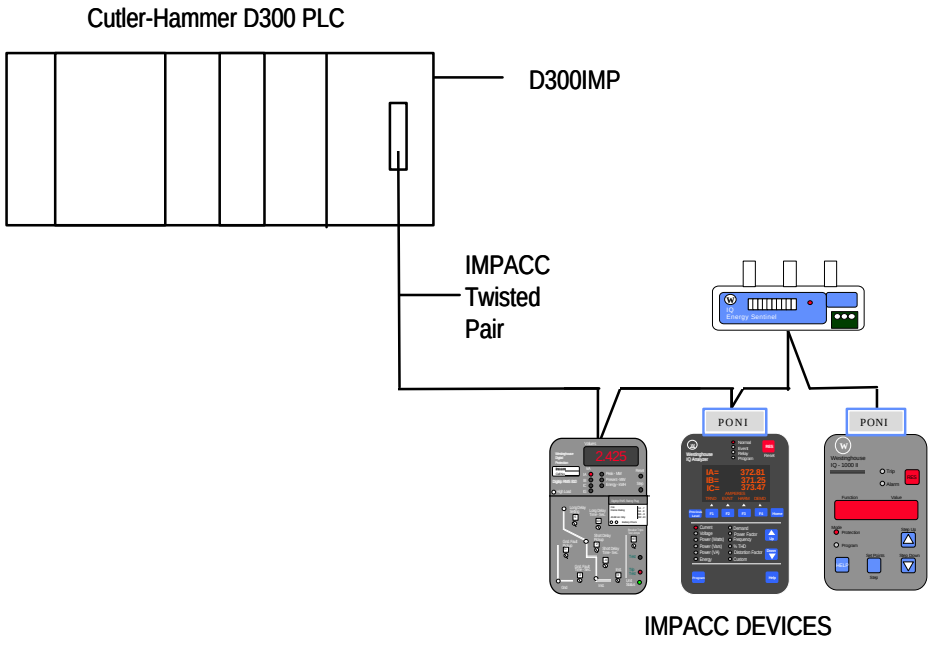
*NOTE: Complete Bill of Material must also include hardware/software from other vendors

Connecting to Cutler-Hammer: D300 PLC

Interface Manufacturer Cutler-Hammer

Supports All IMPACC Devices (waveform data from the IQ Analyzer and Digitrip 910 is not supported)

A direct interface has been developed between Cutler-Hammer's D300 PLCs and IMPACC compatible devices. The D300IMP module allows the IMPACC twisted pair to be brought directly into the PLC, eliminating the need for hardwiring to I/O modules.



Status 6/96 Tested

Distribution & Control Bill of Material

- Cutler-Hammer D300 PLC
- IMPACC Devices
- PONIs (where necessary)
- D300IMP Card

Contact Local Westinghouse Sales Office or
Advanced Products Support Center
800/809-2772

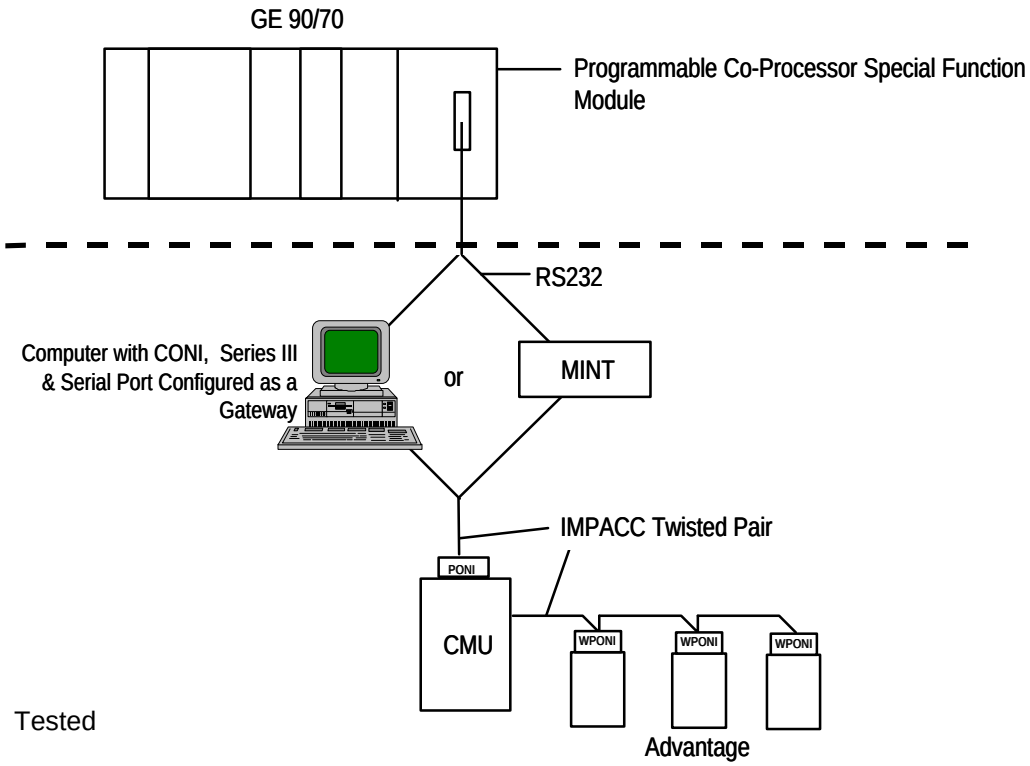
Application Note IMPACC Wiring Specification - TD 17513

Connecting to GE Fanuc - 90/70 PLC

Interface Manufacturer Point Eight

Supports Advantage, CMU

A driver has been written to allow the GE 90/70 PLC to communicate with Advantage starters and contactors through a CMU. This is done through the GE Programmable Co-Processor Module. The RS232 port on the module connects to the MINT II.



Status 6/96 Tested

Distribution & Control Bill of Material*
- MINT or Computer with Series III and a CONI (serial port configured as a Gateway)
- CMU & Advantage Starters
- PONIs (where necessary)

Contact
Point Eight
1510 Engineers Road
Belle Chase, LA 70037
504/394-6100

Application Note IMPACC Wiring Specification - TD 17513

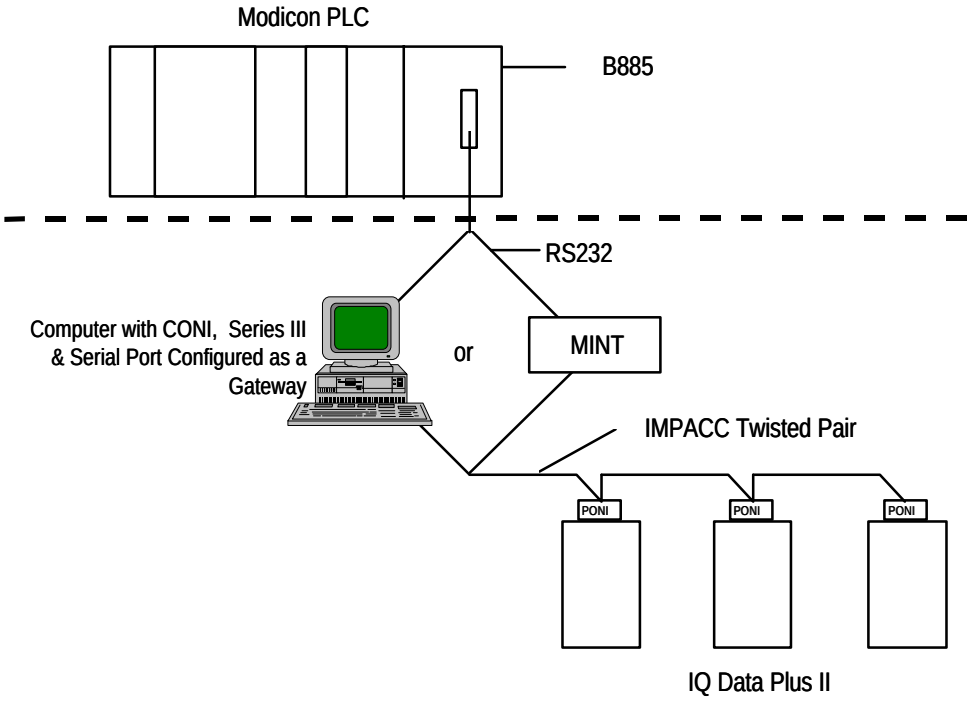
*NOTE: Complete Bill of Material must also include hardware/software from other vendors

Connecting to MODICON 984-680

Interface Manufacturer Puffer-Swieven, Inc.

Supports IQ Data Plus II

A driver has been written by a third party system house that allows the Modicon PLC to act as a master on the IMPACC network. This is done through a software driver loaded into the Modicon B885 smart module. This card has an RS 232 port, and operates on the Modicon 800 I/O rack.



Status 6/96 Tested

Distribution & Control Bill of Material*
- MINT or Computer with Series III and a CONI (serial port configured as a Gateway)
- IQ Data Plus II
- PONIs

Contact

Puffer-Swieven
P.O. Box 2000
4230 Greenbriar
Stafford, TX 77477
713/240-2000

Application Note IMPACC Wiring Specification - TD 17513

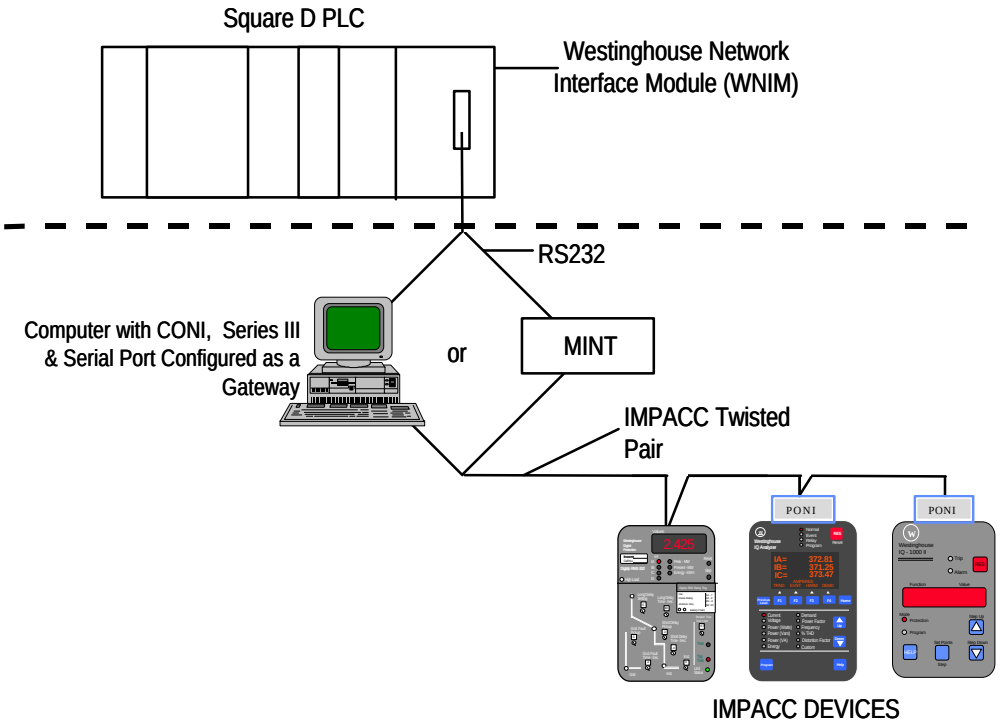
*NOTE: Complete Bill of Material must also include hardware/software from other vendors

Connecting to **SQUARE D - SY/MAX PLCs**

Interface Manufacturer Engage Networks Inc.

Supports IQ Data Plus II, Digitrip RMS, AEM II, Digitrip MV, Advantage

A driver has been written by a third party systems house that allows the Square D SY/MAX to act as a master on the IMPACC network. This is done through the Westinghouse Network Interface Module (WNIM). The WNIM is a communications card that is compatible with the entire line of SY/MAX PLCs.



Status 6/96 Tested

Distribution & Control Bill of Material*
- MINT or Computer with Series III and a CONI (serial port configured as a Gateway)
- IMPACC Devices
- PONIs (where necessary)

Contact Engage Networks Inc.
316 N. Milwaukee St., Ste. 214
Milwaukee, WI 53202
414-273-7600

Application Note IMPACC Wiring Specification - TD 17513

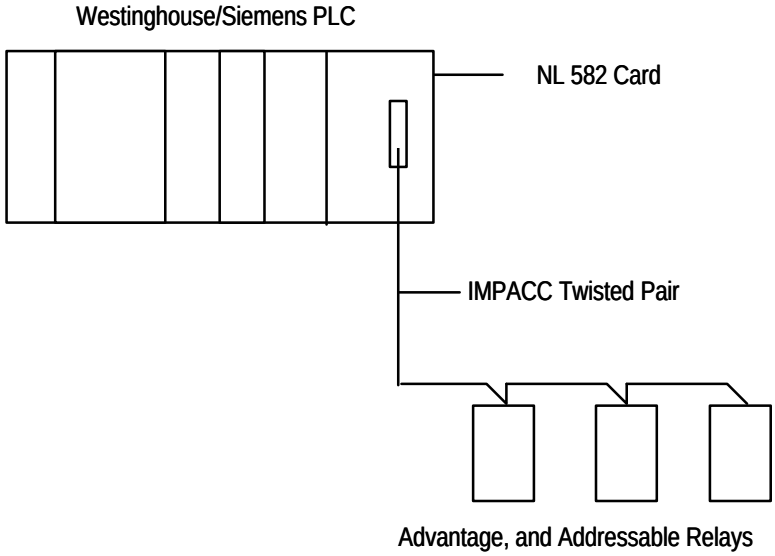
*NOTE: Complete Bill of Material must also include hardware/software from other vendors

Connecting to WESTINGHOUSE: 50, 500, 2000 Series/ SIEMENS: 90U, 100U, 115U Series

Interface Manufacturer Westinghouse Distribution and Control

Supports Advantage, Addressable Relays

A direct interface has been developed between Westinghouse 50, 500, and 2000 Series PLCs and Advantage starters, contactors, and Addressable Relay II's. The NL 582 module allows the IMPACC twisted pair to be brought directly into the PLC, eliminating the need for hardwiring to I/O modules.



Status 6/96 Tested

Distribution & Control Bill of Material*

- Westinghouse 50, 500, or 2000 Series PLCs or Siemens 90U, 100U, 115U Series PLCs
- Advantage, Addressable Relays
- PONIs (where necessary)
- NL 582 Card

Contact

Local Cutler-Hammer Sales Office or
Advanced Products Support Center
800/809-2772

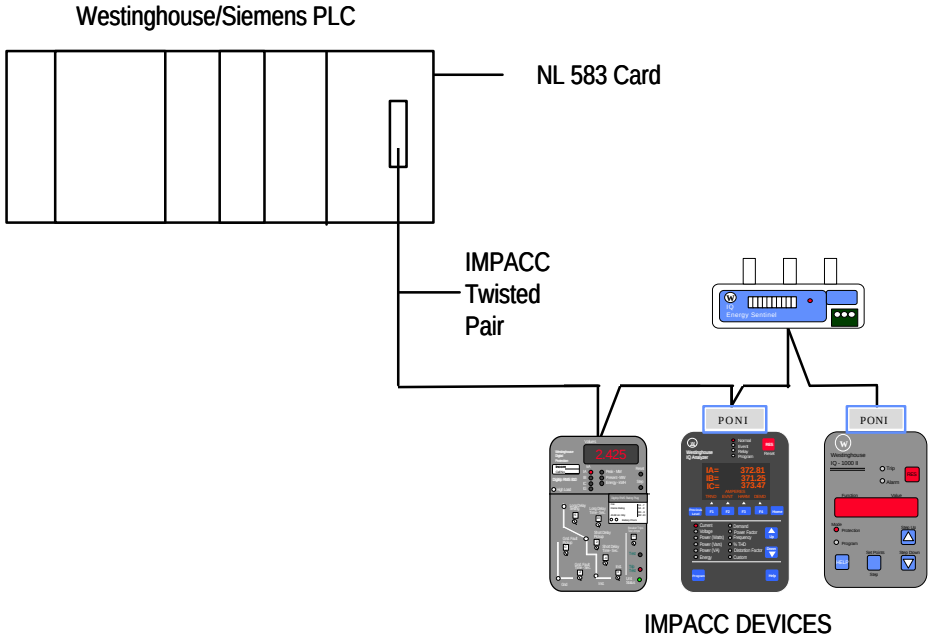
Application Note IMPACC Wiring Specification - TD 17513

Connecting to WESTINGHOUSE: 50, 500, 2000 Series/ SIEMENS: 90U, 100U, 115U Series

Interface Manufacturer Westinghouse Distribution and Control

Supports All IMPACC Devices (waveform data from the IQ Analyzer and Digitrip 910 is not supported)

A direct interface has been developed between Westinghouse 50, 500, and 2000 Series PLCs and IMPACC compatible devices. The NL 583 module allows the IMPACC twisted pair to be brought directly into the PLC, eliminating the need for hardwiring to I/O modules.



Status 6/96 Tested

Distribution & Control Bill of Material*
- Westinghouse 50, 500, or 2000 Series PLCs or Siemens 90U, 100U, 115U Series PLCs
- IMPACC Devices
- PONIs (where necessary)
- NL 583 Card

Contact Local Cutler-Hammer Sales Office or
Advanced Products Support Center
800/809-2772

Application Note IMPACC Wiring Specification - TD 17513