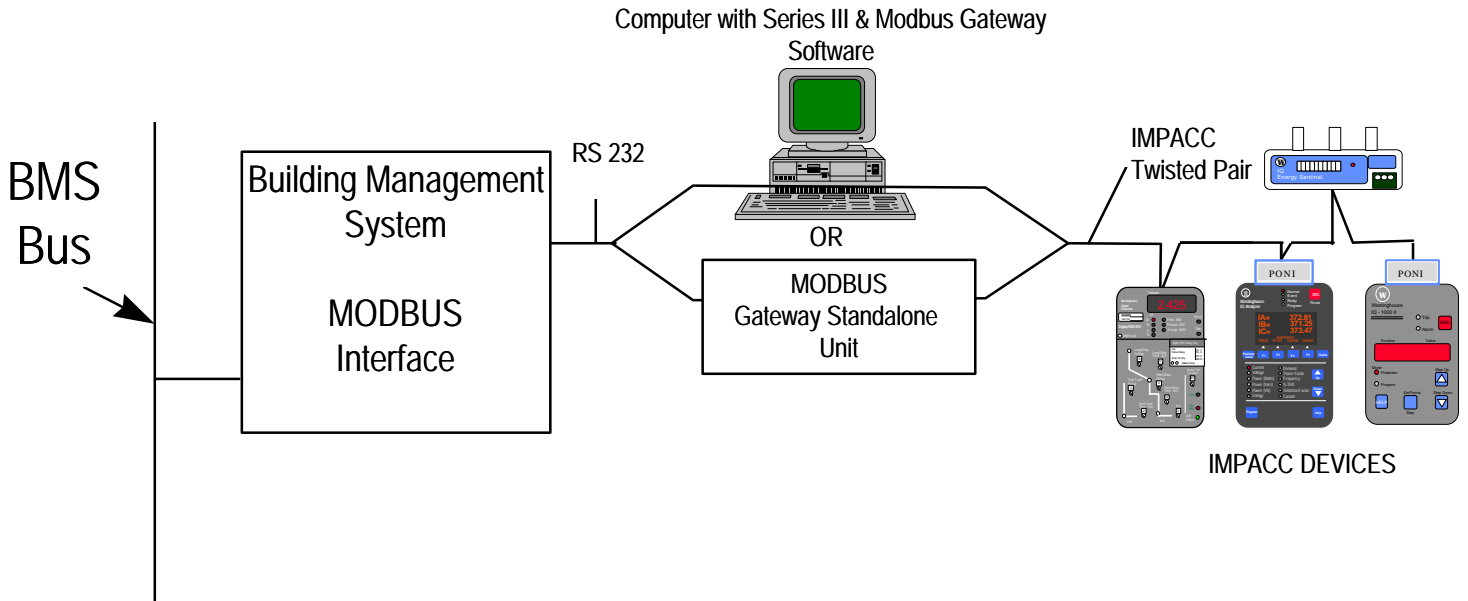# IMPAC⊙—CONNECTIVITY

Connecting to	Building Management Systems - Modbus Gateway
Interface Manufacturer	Cutler-Hammer
Supports	All IMPACC Devices (waveform data from the IQ Analyzer and 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 Building Management Systems have a standard interface. Note: The Modbus Gateway supports up to 200 IMPACC devices.

Computer with Series III & Modbus Gateway Software

BMS Bus

Building Management System

MODBUS Interface

RS 232

OR

MODBUS Gateway Standalone Unit

IMPACC Twisted Pair

PONI   PONI

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

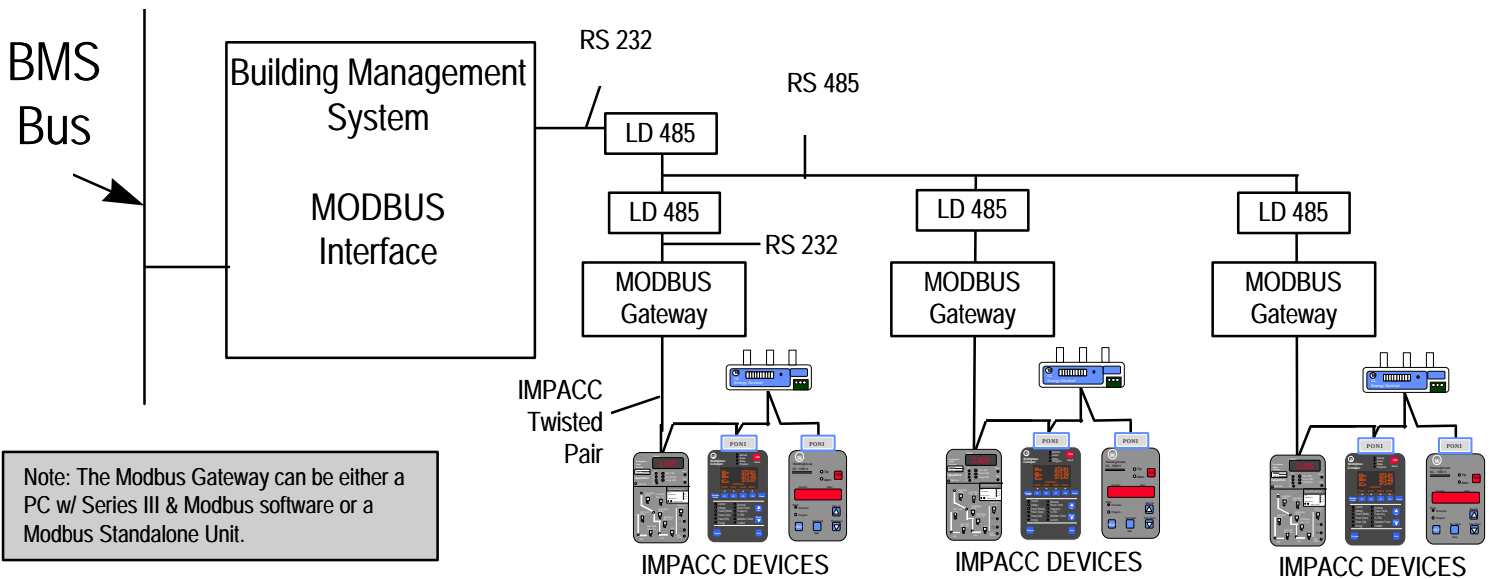|	
Connecting to	Building Management Systems: Multi-Drop Modbus
Interface Manufacturer	Cutler-Hammer
Supports	All IMPACC Devices (waveform data from the IQ Analyzer and Digitrip 910 is not supported)

IMPACC can be connected to any system with the ability to communicate using the Modbus protocol. (please see page 4-1 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 BMS 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
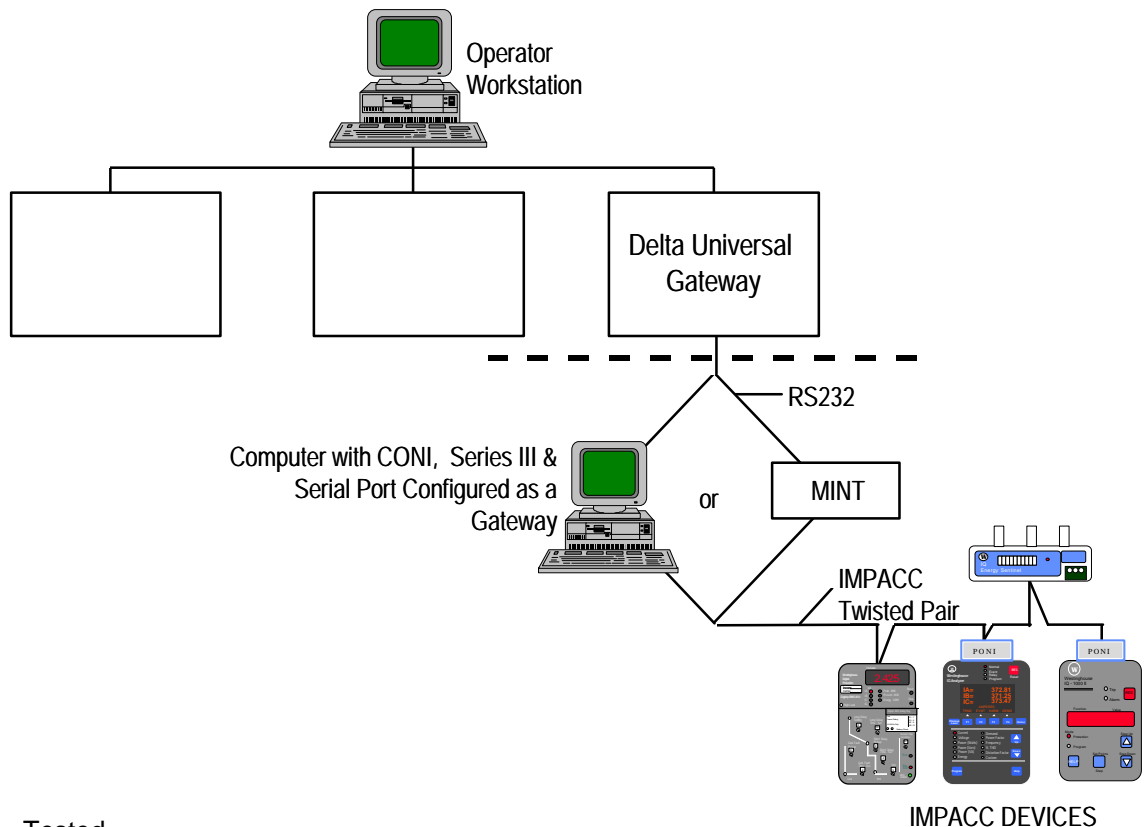
IMPACC—CONNECTIVITY

Connecting to

Honeywell: Deltanet Graphic Central

Interface Manufacturer

Honeywell

Supports

Addressable Relay, Advantage (no control), ACM, AEM II, CMU, Digitrip RMS, Digitrip MV, IQ Energy Sentinel (breaker mount), IQ 1000II, IQ 500, IQ Data/Gen, IQ Data Plus II, Universal RTD

An interface has been developed by Honeywell that allows the Honeywell system to act as a master on the IMPACC network. This is done through a software driver loaded into the Delta Universal Gateway. This is a hardware module with an RS232 port and acts as the interface unit between the MINT and Deltanet Graphics Central.

IMPACC DEVICES

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

Local Honeywell Home and Building Control Sales Office

Application Note

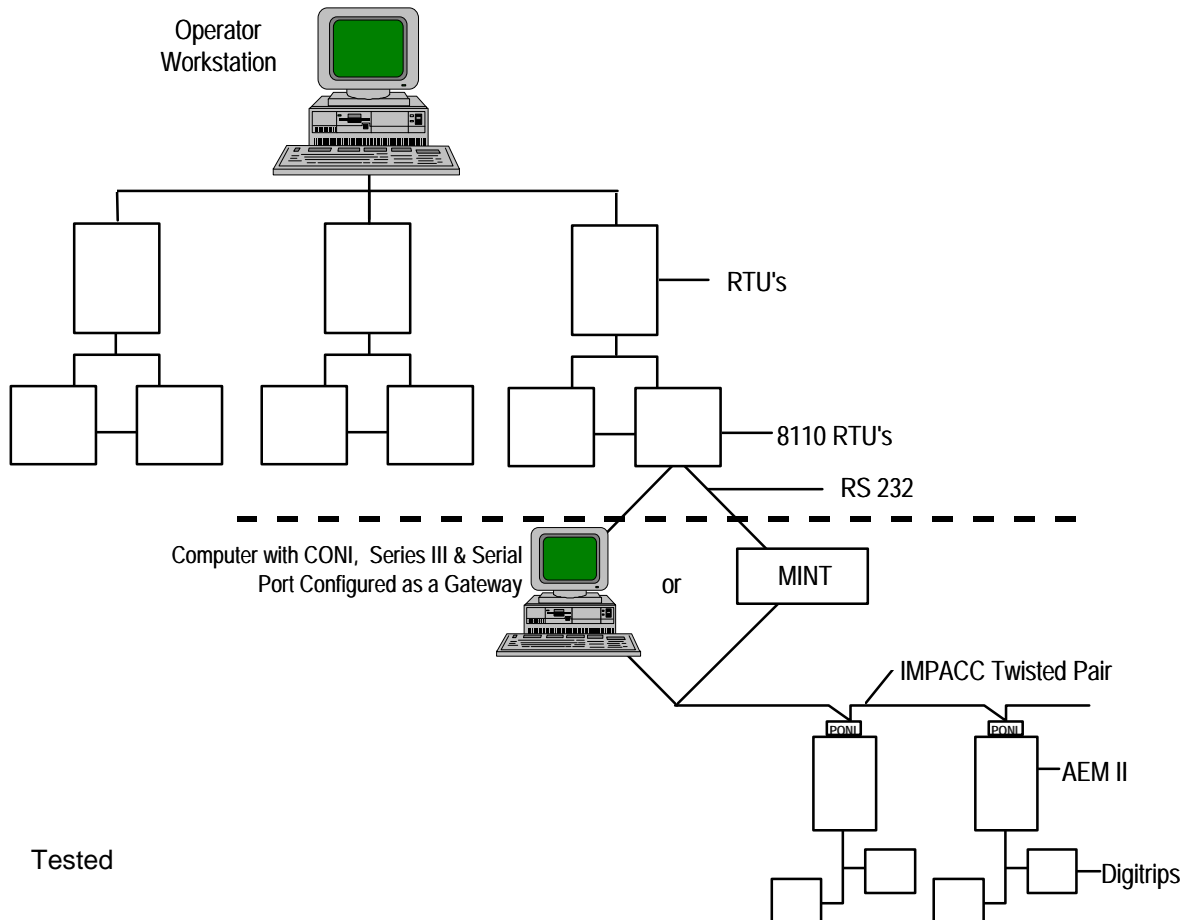IMPACC Wiring Specification - TD 17513

4-3

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

IMPACC—CONNECTIVITY

Connecting to ILEX Energy Management System

Interface Manufacturer ILEX

Supports Digitrips, AEM II (Digitrips must communicate via the AEM II)

An interface has been developed by ILEX EMS that allows the ILEX system to act as a master on the IMPACC network. This is done through a software driver loaded into the ILEX 8110, an RTU with communications capability. Note that maximum of 17 Digitrips may be networked to each 8110 RTU.

Operator Workstation

RTU's

8110 RTU's

RS 232

Computer with CONI, Series III & Serial Port Configured as a Gateway   or   MINT

IMPACC Twisted Pair

PONI   PONI

AEM II

Digitrips

Status 6/96 Tested

Distribution & Control Bill of Material*
•MINT or Computer with Series III and a CONI (serial port configured as a Gateway)
•Digitrips & AEM II's
•PONIs (where necessary)

Contact Local ILEX Representative or
ILEX Systems
1988 Tarob Court
Milpitas, CA 95035-6802
408/945-0294

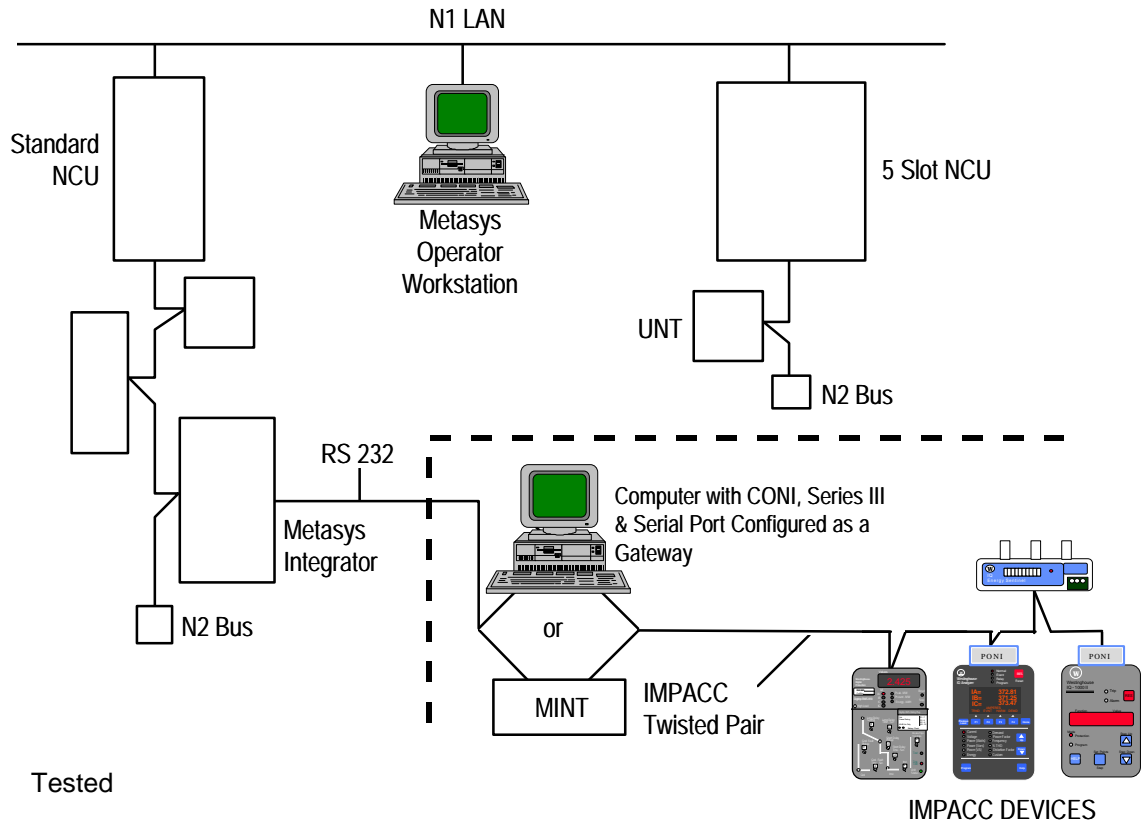**Application Note** IMPACC Wiring Specification - TD 17513

4-4

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

IMPACC—CONNECTIVITY

Connecting to Johnson Controls - Metasys

Interface Manufacturer Johnson Controls

Supports IQ Data, IQ Generator, IQ Energy Sentinel, IQ Data Plus II, IQ 1000 II, Advantage, Digitrip RMS, AEM II, Digitrip MV, IQ Analyzer, IQ DP 4000

An interface has been developed by Johnson Controls that allows the Johnson Controls network (Metasys) to act as a master on the IMPACC network. This is done through a software driver loaded into the JCI Metasys Integrator. This is a hardware module with an RS232 port and acts as the interface unit between the MINT II and Metasys.

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 Local Johnson Controls Sales Office

Application Note IMPACC Wiring Specification - TD 17513

4-5

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

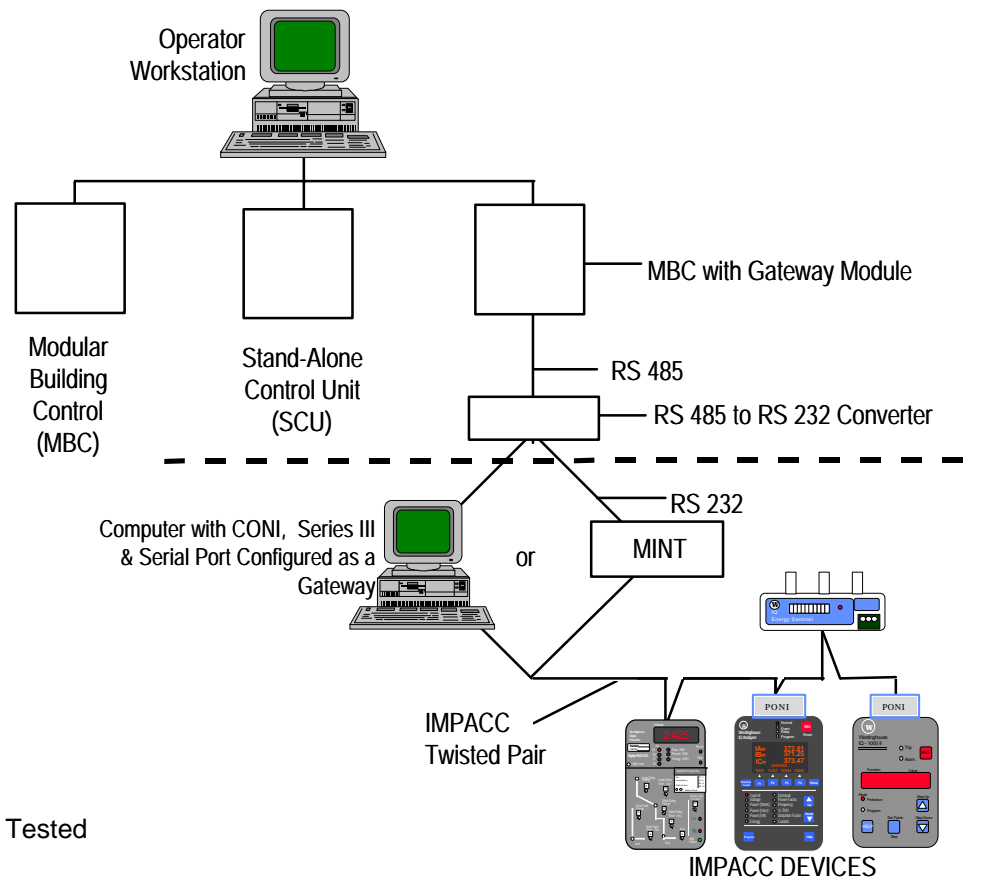**Connecting to** | LANDIS & GYR POWERS SYSTEM 600 Factory Automation System

Interface Manufacturer | Landis & Gyr Powers

Supports | IQ Data, IQ Generator, IQ Energy Sentinel(Breaker Mount), IQ Data Plus II, IQ-1000 II, Advantage, Digitrip 700/800, AEM II, Digitrip MV, IQ Transfer, IQ Analyzer

The physical connection from the System 600 to IMPACC is done via the Landis & Gyr Gateway Module. The Gateway Module connects to either the Mint II or Series III (version 6.20 or higher). Note that the Gateway Module supports 80 IMPACC devices.

Operator Workstation

Modular Building Control (MBC)

Stand-Alone Control Unit (SCU)

MBC with Gateway Module

RS 485

RS 485 to RS 232 Converter

Computer with CONI, Series III & Serial Port Configured as a Gateway

or

MINT

RS 232

IMPACC Twisted Pair

IMPACC DEVICES

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 | Local Landis & Gyr Sales Office or
Landis & Gyr
1000 Deerfield Pky
Buffalo Grove, IL 60089
847/215-1050

Application Note | IMPACC Wiring Specification - TD 17513
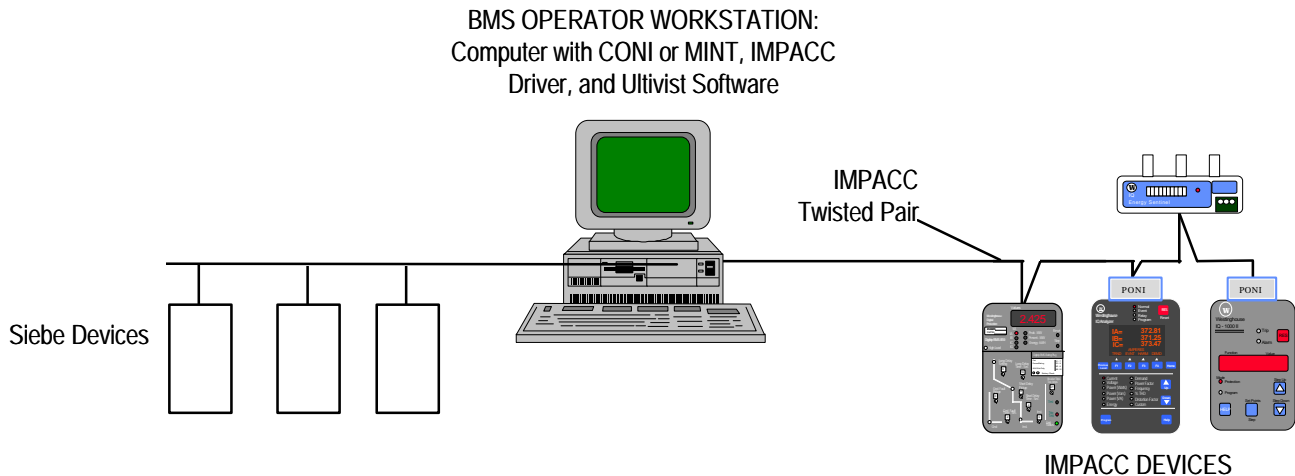
4-6

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

Connecting to   Siebe Environmental Controls

Interface Manufacturer   Siebe Environmental Controls

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

An interface has been developed to link IQ / IMPACC devices to Siebe Environmental Controls Ultivist software. This is done through a software driver loaded into the Ultivist workstation, a computer running the Ultivist Software. The interface can be done direct to the CONI card or the MINT.

BMS OPERATOR WORKSTATION:
Computer with CONI or MINT, IMPACC
Driver, and Ultivist Software

IMPACC
Twisted Pair

Siebe Devices

PONI   PONI

IMPACC DEVICES

Status 6/96   Tested

Distribution & Control Bill of Material*
•CONI or MINT
•IMPACC Driver
•IMPACC Devices
•PONIs (where necessary)

Contact   Local Siebe Environmental Controls Representative or
Siebe Environmental Controls
1701 Byrd Ave.
Richmond, VA 23230
(804)289-4200

Application Note   IMPACC Wiring Specification - TD 17513

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