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Glossary

Addressable Relay II

A digital input/output device that monitors through status inputs and controls through a Form C contact output.

Advantage

A line of NEMA starters and contactors that are able to communicate information on the IMPACC network.

AEM II (Assemblies Electronic Monitor II)

A device that displays the information from up to 40 Digitrip devices.

Baud

A measurement of digital communications speed. Baud refers to the number of data bits transmitted per second.

BIM (Breaker Interface Module)

A device that displays the information of up to 50 circuit breakers equipped with Digitrip RMS 810/910, OPTIM trip units, and/or Energy Sentinels or Universal Energy Sentinels. The BIM is also used to program and test OPTIM trip units.

Building Management System

A system that monitors and controls a building's environmental control (HVAC - Heating, Ventilating, Air Conditioning), energy management, maintenance management, lighting control, and fire management.

CED (Central Energy Display)

A device that displays energy and power information from up to 50 IQ Energy Sentinels and IQ Data Plus II's.

CONI (Computer Operated Network Interface)

A card that mounts in the expansion slot of an IBM or IBM-compatible AT-type bus computer. The card contains the INCOM chip, allowing communications with IMPACC device.

CMU (Central Monitoring Unit)

A device that displays information from up to 99 Advantage starters, contactors, or IQ 500s.

CSV (Comma Separated Variable)

Data file format where entries are separated by commas, CSV files are used in spreadsheet applications (e.g. Microsoft Excel, Lotus 1-2-3).

Daisy-Chain

A data communications topology where devices are connected one after another. Other topologies include "ring" and "star".

DDE (Dynamic Data Exchange)

A standard Microsoft and IBM communication protocol, DDE allows programs to easily and freely exchange data with one another. DDE is the communications standard that allows Microsoft Windows applications to communicate easily.

Digiboard

A card installed in the computer which allows for up to eight serial connections. (Series III can support two digiboards.)

Digitrip RMS

Solid-state, low voltage, circuit breaker trip unit for use in types DS, DSL, SPB, and Series C R-Frame Circuit Breakers. Provides circuit protection, information, integral testing, and energy monitoring functions. Digitrip RMS's communicate directly with IMPACC and can also be networked through an AEM II or BIM.

Digitrip OPTIM

Solid-state, low voltage, circuit breaker trip unit for use in types DS, SPB, and Series C Circuit Breakers. Provides circuit protection, information, integral testing, and energy monitoring functions. Digitrip OPTIM's communicate directly with IMPACC and can also be networked through a BIM.

Digitrip MV

Solid-state circuit breaker overcurrent relay. Provides selectable circuit protection, information, operator conducted testing, and remote communications capability with IMPACC.

Distributed Control System (DCS)

An integrated system that provides process control and data acquisition functions. Used extensively by all continuous process industries including pulp and paper, petrochemical, waste-water, and power generation.

Driver

A software program that establishes a communications link between two microprocessor based device.

Enhanced Graphics

An IBM personal computer based graphics package, used in conjunction with Series III, that provides supervisory control, monitoring, and data acquisition.

Gateway Interface

A selectable option in Series III that allows IMPACC information to be passed through the computer serial port into another computer, PLC, or system. The information (protocol) sent is identical to that of the MINT II (see MINT II).

INCOM (Industrial Communications)

Refers to the protocol used on the IMPACC network.

IMPACC

Integrated Monitoring Protection and Control Communications. Refers to the Cutler-Hammer communications network for electrical distribution systems.

IQ 500

A solid-state overload relay that provides current based overload protection for a motor.

IQ 1000 II

A solid-state motor protective relay that provides current and temperature protection and monitoring for a motor.

IQ Analyzer

A solid state premier power quality meter. Performs all the metering functions of the IQ Data Plus II as well providing extensive power quality information, waveform analysis, detailed information on trends, recorded events/alarms, harmonic distortion, and peak demands of current and power.

IQ Data

A solid-state metering device that monitors voltage and current.

IQ Data Plus II

A solid-state metering device that monitors current, voltage, watts, vars, power factor, demand watts, frequency, and watt-hours.

IQ Energy Sentinel

A breaker mounted, solid-state metering device that monitors watts, watt-hours, and peak demand for Series C Breakers.

IQ Generator

A solid-state metering device that monitors voltage, current and frequency.

IQ Universal Energy Sentinel

A DIN rail or panel-mounted, solid state metering device that monitors watts, watt-hours, and peak demand where Series C breakers are not used.

MINT (Master INCOM Network Translator)

A device that translates the 33 bit INCOM signal into a 10-bit ASCII message. There are two ports on the MINT II, an INCOM port and an RS232 port. This allows for RS 232 communications to a computer, programmable controller, or other system.

Modbus

A communications protocol that stipulates how data is transmitted across a serial bus. Modbus is commonly used for industrial communications and distributed control systems.

Modbus Gateway

A device that translates the INCOM signal to Modbus protocol and communicates it over RS 232 transmission media. The gateway can either be a stand alone unit or a computer with Series III and Modbus Software. The latter is done by using the computer's serial port as a Gateway Interface.

Protocol

Communications term referring to the format in which data messages are transmitted.

PONI (Product Operated Network Interface)

A communications module that attaches to an IMPACC compatible device and allows the device to communicate to the system master.

Programmable Logic Controller (PLC)

A solid state device used to control, monitor, and regulate industrial machines and processes.

RS 232 / RS 485 / RS 422

Various communication standards referencing how information is sent between microprocessor controlled devices.

RS232 PONI (Product Operated Network Interface)

A communications module that attaches to an IMPACC compatible device. The RS 232 PONI allows the device to communicate with a system master using a 10 byte ASCII RS232 signal. The RS 232 PONI is used on networks where only one device (or AEM II, CMU, CED) is required.

Series III

A complete monitoring and control software package for the IMPACC network. Series III is Microsoft Windows based and runs on a personal computer.