Instructions for the Portable IQ Analyzer
Catalog # IQA6600PORTI

THE EQUIPMENT

The Portable IQ Analyzer includes an IQA6620, an IPONI, power connection, On/Off switch, fuse, I/O terminal strip, INCOM Communication connectors, and banana-plug connections for current transformer and system voltage. Also included are a power cable, clips, and cables for voltage and current.

THE IQA6620

The IQA6620 has firmware for metering, waveform capture, trending, logging, time-of-use, and graphic displays. It also includes a Separate Source DC Power Module, which accepts 24 to 48Vdc through the power connector.

In addition to metering, the IQA6620 features waveform capture, trending, logging, time-of-use, and graphic displays. Without additional software, all IQA6620 settings and data are available at the local display as described in the IQ Analyzer User's Manual (TD17530B).

EQUIPMENT POWER

The power connection and cable are standard cables that are compatible with most personal computers and laboratory equipment. Acceptable voltage is 96-264Vac (100-250Vdc), and the power draw is typically 12 Watts (20VA max). An On/Off switch and 2Amp fuse is also provided.

VOLTAGE AND CURRENT CONNECTIONS

The voltage, current, and I/O connections should be wired per the instructions in the IQ Analyzer User's Manual (TD17530B). Labels for the Portable IQ Analyzer closely match those of the IQA6620.

DANGEROUS VOLTAGES ARE LIKELY AT THE

⚠ **WARNING**

VOLTAGE AND CURRENT CONNECTIONS.

OPERATION OF THIS EQUIPMENT MUST BE PERFORMED ONLY BY QUALIFIED PERSONNEL WHO ARE FAMILIAR WITH POWER SYSTEMS AND NEC REQUIREMENTS.

PRECAUTIONS MUST BE TAKEN TO ASSURE THAT CURRENT TRANSFORMER OR VOLTAGE CONNECTIONS ARE NOT ACCIDENTALLY DISCONNECTED. FAILURE TO OBSERVE THIS WARNING COULD RESULT IN PERSONAL INJURY OR DEATH.

INPUT/OUTPUT CONNECTIONS

To simplify the interface, not all of the IQA6620 terminals are available at the panel terminals. Specifically, the IQA6620 include four form-C relays, but only Relay1 and Relay2 are wired. Each relay is an isolated electro-mechanical Form-C relay.

Similarly, the IQA6620 includes three discrete contact inputs but only Discrete Input#1 (DISC1) is wired. The discrete input is intended to sense a contract closure from a relay or pushbutton.

⚠ **CAUTION**

DO NOT APPLY VOLTAGE TO THE DISCRETE INPUT TERMINALS OR ANALOG I/O TERMINALS. PERMANENT DAMAGE MAY RESULT.

ANALOG INPUT/OUTPUT CONNECTIONS

The IQA6620 includes three 4-20mA analog outputs and an analog input, but only Analog Out1 (OUT1), Analog Out2 (OUT2), and Analog Input are wired. For details on these I/O functions, see the IQ Analyzer User's Manual (TD17530B).

The analog outputs are 4-20mA outputs that are referenced to the earth ground terminal. For wiring the analog outputs, wire to the COM terminal (ground) and verify a load resistance of less than 750 ohms before wiring the analog output terminals.

The analog input is intended to receive 4-20mA inputs for Meter Menu display under Custom or for network communication.

⚠ CAUTION

DO NOT CONNECT THE ANALOG OUTPUT TERMINALS BEFORE THE COM (GROUND) TERMINAL. PERMANENT DAMAGE MAY RESULT.

IPONI (INCOM PRODUCT OPERATED INTERFACE)

The IPONI is accessible via two different communication ports and is factory preset to a hexadecimal address of 555.

One port is a three-conductor INCOM terminal for wiring IMPACC cable to a MINT (the left pair of conductors being the INCOM communication signals and the right conductor being the shield).

The second port is a RJ-11 connector for wiring telephone cable to a CONI card within a personal computer (this is not a telephone or modem connection).

SOFTWARE

In addition to metering, the IQA6620 features waveform capture, trending, logging, time-of-use, and graphic displays. Without additional software, all IQA6620 settings and data are available at the local display as described in the IQ Analyzer User's Manual (TD17530B).

The portable IQ Analyzer also has a built-in RS-232 interface. This interface allows the user to directly connect to the portable with a laptop PC. Configuration and basic monitoring of the protable can be done using the Cutler-Hammer PowerPort software. PowerPort can be downloaded form the Internet for free.

OPERATION CHECK

Verify that the ground wire is used on the power cord.

Apply ac line power to the meter. The front display of meter should become operational within 5 seconds at 120 Vac. If the device is not powered, remove power and check the power connection.

Restore ac line power to the meter and check readings on the unit. If the readings do not check out, or an alarm condition occurs, consult the instruction manual or call Power Management Application Support at 1(800) 809-2772.

MAINTENANCE

This industrial type control is designed to be installed, operated, and maintained by adequately trained personnel. These instructions do not cover all details, variations, or combinations of the equipment, its storage, delivery, installation, checkout, safe operation, or maintenance. Care must be exercised to comply with local, state, and national regulations, as well as safety practices, for this class of equipment.

There are no user serviceable parts within the Portable IQ Analyzer. While there is a 2A fuse, its failure would indicate other problems that require repair. The user should not attempt servicing this equipment. Please contact your local Cutler-Hammer representative or the Cutler-Hammer Power Management Application Support (PMAS) for service information or additional questions.

CONTACT INFORMATION

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