Instructions for the Contact Input Card used with the CONI-III and IMPACC™ Networks
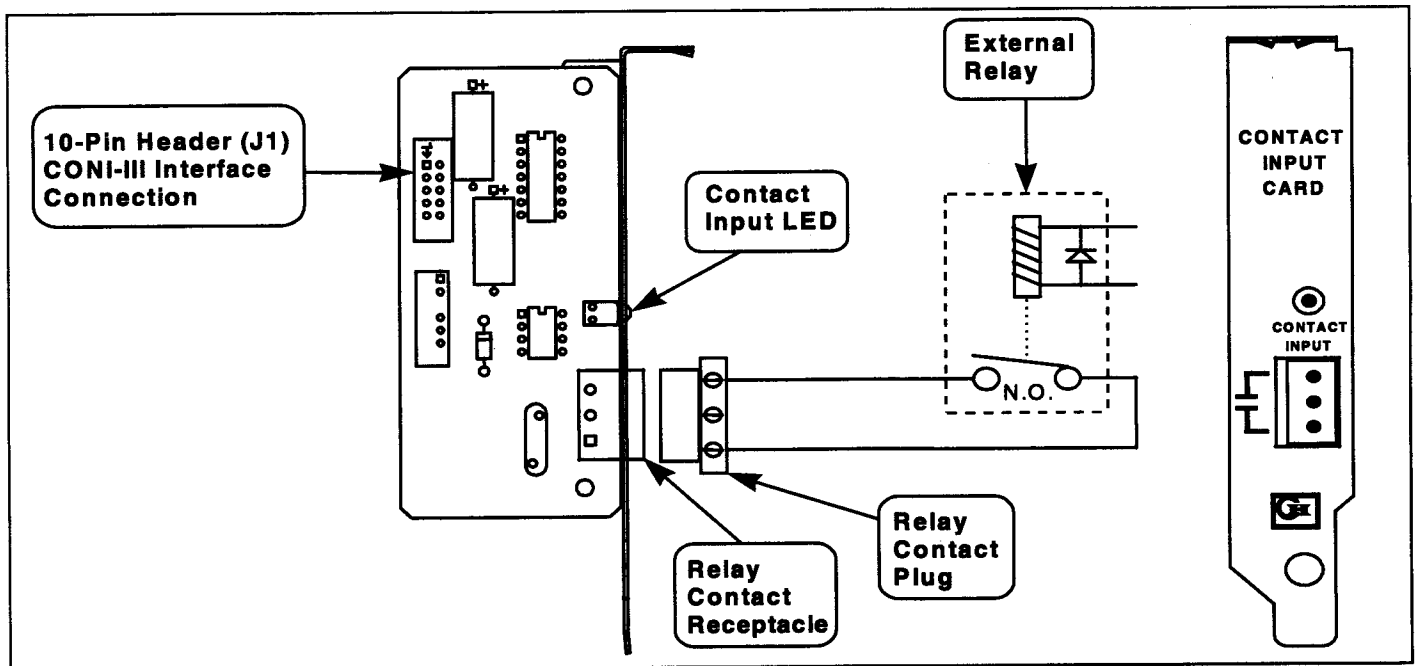

Figure 1. Contact Input Card Board

THE CONTACT INPUT CARD

The Contact Input Card (CIC) is an accessory to the CONI-III. The CIC installed and connected to a CONI-III in a PC provides a simple to use way to interface a digital contact input (i.e. a utility demand sync pulse) to the CONI-III.

USER INTERFACES

The CIC has one red Light Emitting Diode (LED) and a 3-pin PHOENIX connector visible from the rear of the PC (see **Figure 1**). The LED is lit when the CIC is receiving the contact closure. The connector is used to connect the relay to the CIC. The wiring of the connector to the relay is shown in **Figure 1**.

CONI-III INTERFACE CONNECTION

The CIC also has a 10 position male header (see **Figure 1**). The CONI-III Interface Connection is used to send the contact closure to the CONI-III. This allows the CONI-III to send the contact closure to the application software. Details of the installation and use of the CONI-III can be found in I.L. 17551.

HARDWARE INSTALLATION

The CIC is designed to be installed, operated and maintained by adequately trained people. These instructions do not cover all details, variations, or combinations of the equipment, its storage, delivery, installation, check-out, safe operation or maintenance. The installer must comply with local, state and national regulations, as well as safety practices for this class of equipment.

> Note: Electrostatic discharge (ESD) can damage either the CIC or the CONI-III boards. Use ESD precautions when removing or installing a board from its anti-static bag. When not installed in a PC, the boards should be kept in an anti-static bag.

Obtain the following items before installation:

1. One IBM compatible PC with an installed CONI-III and a spare expansion slot.
2. A Cutler-Hammer CIC with the supplied ribbon cable connector assembly to reach from the 10-pin shrouded header on the CIC to the 10-pin shrouded header on the CONI-III.
3. Enough wire (12-24 AWG) to reach from the Relay Contact Plug on the CIC to the External Relay and back. The resistance of this loop can not exceed 1000 ohms.

To install the CIC into the spare slot of an IBM compatible PC, perform the following steps:

1. Plug one end of the 10-pin ribbon cable connector assembly into the keyed shrouded header on the CIC (CONI-III Interface Connection).
2. With the PC power OFF, install the CIC in the PC. (Remove the CIC with power off as well)
3. Screw the CIC board bracket down to the PC case.
4. Plug the remaining end of the 10-pin ribbon cable connector assembly into the keyed shrouded header on the CONI-III (Contact Input Card Connection).
5. Attach wiring for the External Relay to the Relay Contact Plug (see **Figure 1**).
6. Insert the Relay Contact Plug into the Relay Contact Connector on the CIC board (see **Figure 1**).

The PC system with installed CIC is now physically tied into the CONI-III. Provided the proper software is installed in the PC, the CIC is ready to begin operating.

CIC SERVICING

In the unlikely event that there is a problem with the ability of the CONI-III to detect a contact closure and it is suspected that the CIC is the problem try the following items:

1. Check the wiring connections from the External Relay to the Relay Contact Plug.
2. Pull and re-seat the Relay Contact Plug on the CIC.
3. Pull and re-seat the CONI-III interface connection on the CIC.
   Pull and re-seat the Contact Input Card connection on the CONI-III.
4. Remove the ribbon cable assembly between the CIC and the CONI-III and check for connectivity between plugs. Replace the ribbon cable assembly if required.

There are no user serviceable parts on the CIC. The user should not attempt servicing this equipment. Please contact your local Cutler-Hammer representative or the Cutler-Hammer Advanced Product Support Center for service information or additional questions regarding the CIC or any other IQ/IMPACC™ product.

CONTACT PHONE NUMBERS

APSC	1-800-809-2772
	412-494-3750
APSC BBS	412-494-3746
FRED	412-494-3745
(When using FRED dial the number from the handset of your fax machine.)	

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