

Contacts Screen

The PDU can monitor external contact closure events. Possible applications include the following:

- Magnetic contact switches
- Window foil
- Tamper switches
- Heat detectors
- Water sensors
- Pressure sensors
- Building smoke and fire detection systems

You can set input contacts to cause alarm conditions based on their current state and a user-defined normal state. Relay outputs can map internal alarms and events to outside devices. Use the **Contacts** screen to display and configure information about input contacts and relay outputs.

Input Contacts

Scroll through the list to display information about each of the installed input contacts. For example **02of04** displays information about the second of four installed input contacts.

- **Name** The name of this input contact (*Maximum: 14 alphanumeric characters*).
- **Normal** The normal position of this input contact, either **Open** or **Closed**.
- **Status** The position of this input contact. If the position is not the normal position, an alarm condition occurs.

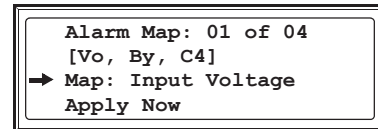
Relay Outputs

Scroll through the list to display information about each of the installed relay outputs. For example **04of04** displays information about the fourth of four available relay outputs.

- **Name** The name of this relay output (*Maximum: 14 alphanumeric characters*).
- **Normal** The normal position of this relay output, either **Open** or **Closed**.
- **Status** The position of this relay output.

Alarm Relay Map

Configure the relay outputs, using the Alarm Relay Map. Each Alarm Map corresponds to an output relay. For



example, Alarm map **01of04** corresponds to the first of four relay outputs. The second line, in brackets [], lists the items that you have selected to map to the selected relay. The third line allows you to select the alarms to which you want to map the relay:

- **Any Load (L)**—Maps to over- or under-current alarms for circuit breaker panels and branch circuits.
- **Overload (O)**—Maps to over-current alarms for circuit breaker panels, branch circuits, and SYSGND.
- **Input Voltage (Vi)**—Maps to any input voltage alarm.
- **Output Voltage (Vo)**—Maps to any output voltage alarm.
- **PDU in Bypass (By)**—Mapping this option will cause the output relay to actuate when the Q3 breaker is closed.
- **Any Breaker (Br)**—Mapping this option will cause the output relay to actuate when the input, bypass input (Q10), or cross-tie output breaker is not in its normal state.
- **Contacts 1–4 (C1, C2, C3, C4)**—Maps to the input contact alarms.

Before exiting the screen, to save your changes, select the Apply Now option on the bottom line of the screen.

Relay output specifications

Nominal switching capacity	1 A at 30 VDC
Maximum switching power	30 W
Maximum switching voltage	60 VDC
Maximum switching current	2 ADC
Maximum carrying current	2 ADC
Surge ratings	2kV per Bellcore TA-NWT-001089 1.5kV per FCC part 68

How to connect contacts to the PDU monitoring unit.

1. Choose one or more contact number on the User/EPO contacts port on the user connection plate to which you will connect the contacts. The user connection plate is connected to the PDU monitoring unit.
2. From the PDU display interface:
 - a. Press the ESC or ENTER key to go to the top-level menu screen.
 - b. Select **Contacts** on the top-level menu screen, and press the ENTER key.
 - c. Press the ENTER key to select the number of the contact you are connecting. The continue arrow ↓ will appear next to the contact number.
 - d. Press the Up or Down arrow key to select the appropriate contact number, and press the ENTER key.
 - e. Press the Down arrow key to enter a unique **Name** for the contact and to configure the Normal state of the contact (Open or Closed). The default **Normal** state is Open. Press the ENTER key to select the item to configure.



Note

You will be prompted for your password to configure these items.

3. Connect contact wires (300V-rated cabling required) to the User Contacts terminal block on the user connection plate. You will need a 2.5-mm standard screwdriver.
4. Run the wires from the terminal block out the roof or under the floor of the PDU to your contact's location.



Warning

Ensure that wires are properly retained and away from high voltage lines and breakers.