Option 8 — Setting Up Relays

The B-Series has two solid state relays rated for +/-30 VDC or 24 VAC up to 0.5 A RMS load.
The relay functions are configurable, but each relay can only be assigned one function at a time.

To access the Relay Outputs Setup menu in Program mode:

1. Press **P**.

2. Enter your **Advanced** access password, and then press **E**.

3. Press **2** to invoke the Quick Jump option.

4. Press **8** for the **Relay Outputs Setup** menu, and then press **E**.

```
_____

SELECT RELAY #
>1
_____
```

The menu prompts you for a relay number.

5. Press either **1** or **2**, and then press **E**.

```
_____

ASSIGN RELAY TO
>ALARM OUTPUT ^v
_____
```

The meter prompts you for a function to assign to the selected relay number. Relay #1 can be assigned to the ALARM OUTPUT and TOT PULSE OUT functions. Relay #2 can be assigned to the ALARM OUTPUT, TOT PULSE OUT, PURGE OUTPUT functions.

6. Use the arrow keys to scroll through the list, and then press **E**.

If the relay is being used by another active function the following prompt appears:

```
_____

RELAY IS USED
CHANGE IT>NO
_____
```

Once a function is configured for the selected relay number, the meter will advance to the setup menu for that function.

The relay can be reassigned to the new function by changing the response to **YES** by using the arrow keys, and then pressing **E**.

The meter will reassign the relay to the new function. The previously assigned function is now unassigned and turned off, when applicable.

- An example of when the function is turned off is if Relay #2 is assigned to the PURGE OUT function and then reassigned to the TOTALIZER PULSE OUTPUT *and* the PURGE TIMER is ON. The meter will turn OFF the PURGE TIMER when the relay is reassigned.

- An example of when the function is *not* turned off is when a relay is assigned to the ALARM OUTPUT function and then reassigned to another function, the alarm is not turned OFF. Only the actuation of the relay due to the triggered alarm is disabled, and the alarm will remain ON and continue to trigger as configured.

If the flow meter is configured with more than 1 relay output, the meter will repeat the sequence of prompts to configure the other relay output.

7. Press **H** to exit the Setup Relay Outputs menu.

Depending on the function that is being associated with the relay, the menu will automatically jump to Option 9 (Alarm setup), Option 10 (NE-43 alarm setup, Option 11 (pulse output), or Option 12 (sensor purge output).