



Option 23 — Drift Check Setup

The zero-mid-span drift check is an automatic calibration mode where both 4-20 mA Analog Output channels report standard zero, mid, and high values for checking the calibration of the device and its data recording signal chain.

This configuration is for the internal timer to initiate the Drift Check at a specified interval. It has no effect on triggering the Drift Check function from Modbus or the digital input.

Note: The zero-mid-span drift check and sensor purge features can be configured to automatically trigger on a user-configured interval. If both features are ON and scheduled to run at the same time, the features will run consecutively, not concurrently.

To access the Drift Check 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 **23** for the **Drift Check Setup** menu, and then press **E**.

```
AUTO DRIFT CHECK
>ON          ^v
```

A prompt appears for setting automatic drift ON or OFF.

5. Press the arrow keys to select **ON** or **OFF**, and then press **E**.

```
DRIFT CHK INTRVL
>16          HOUR
```

When AUTO DRIFT CHECK is ON, the prompt appears for the Drift Check Interval.

This parameter defines the periodic interval (in hours) that the drift check sequence will be initiated by the internal timer. The interval can be between 1 to 18000 hours. The factory default is 16 hours.

6. Use the numeric keys to enter a time value, and then press **E**.
Press **P** to skip to the prompt without making changes.

A series of prompts appear for each drift check test level (zero-mid-span) regarding the amplitude of the output signal and its duration.

The amplitude is given as a percent of the FS of the independent voltage source (3.3V).

In the following example, 10.0% means that 0.33V (10% of 3.3V) will be applied to the circuit inputs that are measured and reported at the 4-20 mA output for the drift check at zero.

The duration is the time check is applying the voltage to the measurement electronics and reported through the analog outputs. The 4-20 mA output is at the zero value before switching to the mid and span drift check prompts.



% FS AT ZERO
>10.000000

DURATION AT ZERO
>60 SEC

% FS AT MID
>50.000

DURATION AT MID
>60 SEC

% FS AT SPAN
>90.00000

DURATION AT SPAN
>60 SEC

7. Use the numeric to enter the time value, and then press **E**.
Press **P** to skip to the prompt without making changes.
8. After completing all prompts, the main Program mode option entry prompt appears.
Press **H** to return to Run mode.