Falcon transmitters with SnooZe Mode

With DCI's limited-edition Falcon transmitter (Tx) with SnooZe/Z-Mode the Tx signal can be turned off down-hole and turned back on as needed. This can extend battery life up to 30+ days for wireline projects that require walkover capability on demand.

Look for the SnooZe logo etched on the Tx.

Activate Z-Mode

After the initial Tx setup and calibration, activate Z-Mode by executing a Repeating Roll Sequence four times (RRS4) either manually or assisted by the Aurora Display's XR App.

On the first RRS4, Z-Mode is activated with no signal. Every RRS4 you execute after the first one switches the Tx between signal or no signal. For instructions how to execute an RRS4, see page 3.

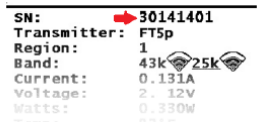
When the Tx has no signal, you cannot use the standard roll sequences (10-2-7 and RRS3) for changing bands. To change bands above ground, use the Power On or Tilt Methods. Search the **DigiGuide App** for steps.

Verify Tx Z-Mode

Use the Tx serial number (SN) on the Tx Info Request screen to confirm the status of the Tx before it goes into the housing and down hole

- First number is a 3 – Standard Tx mode
- First number is a 4 – Z-Mode with signal
- First number is a 5 – Z-Mode no signal

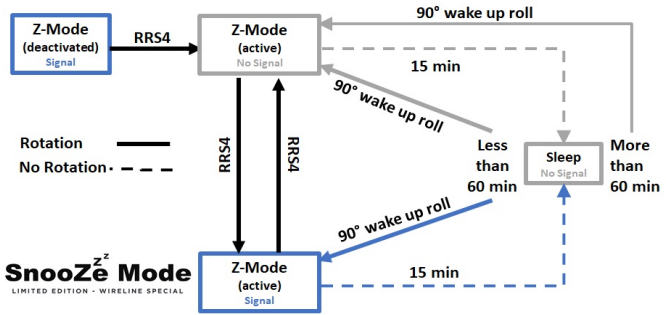
For steps, search the **DigiGuide App**.



Enhanced Sleep mode

If the Tx does not rotate (less than 5°) for more than 15 minutes, the Tx will go into Sleep mode with no signal to save battery life. To wake-up a Tx from Sleep mode, slowly rotate the drill head for 10-15 seconds, and then stop at a new CP (1/4 rotation/90°).

If the Tx is in Sleep mode for more than 60 minutes, a Wake-Up roll will only go to Z-Mode with no signal. This is a safety measure. To switch to Z-Mode with signal, execute a Wake-Up roll followed by an RRS4.



Estimated battery life

Battery life in Z-Mode depends on how many hours per day the signal is on, how many hours rotating with no signal, and how many hours in Sleep mode. In the estimate below, a 24-hour day consists of:

- 1 hour in Z-Mode - rotation with signal - standard current draw
- 7 hours in Z-Mode - rotation with no signal - low current draw
- 16 hours in Sleep mode - no rotation, no signal - minimum current draw

Battery Type	Low Power 15/19/24-in	Standard Power 15-in	Standard Power 19/24-in	High Power 15/19/24-in
Alkaline (not suggested)	9.5 days*	8 days	N/A	N/A
LiR21700 5k mAh	11 days	10 days	8 days	5.5 days
DCI SuperCell	33.5 days	29.5 days	23.5 days	16 days

*24-hour days/7 days per week

Battery life estimates are not guaranteed. Actual battery life will vary due to battery quality, Tx housings, tooling, interference, frequencies, hours active, environment and other factors.

Deactivate SnooZe Mode

An RRS4 does not deactivate Z-Mode. To deactivate Z-Mode:

- Power on the Tx vertically (±25°). This sets the Tx to either Up or Down band.
  - OR -
- Pair the Tx with a locator after changing frequencies, bands, power level, or FSSP mode.

If you deactivate Z-Mode, the Tx functions as a normal Tx with standard Sleep mode. The signal will only turn off if the Tx does not rotate for 15 minutes and will turn back on with a Wake Up roll no matter how long the Tx is in Sleep mode.

To change the batteries without changing the the Tx settings (last band, FSSP mode, power mode, and Z-Mode), power on the Tx while holding it horizontally.

Execute a Z-Mode repeated roll sequence (RRS4)

1. Execute a Wake-Up roll to verify that Tx is not in Sleep mode.
   A. Make a reference mark on the drill string at the current clock position (CP).
   B. Slowly rotate the drill head for 10-15 seconds, and then stop at a new CP (1/4 rotation/ 90°).
2. Execute the RRS4.
   A. Hold the Tx stationary for at least 40 seconds and make a reference mark at the new CP.
   B. Complete one full clockwise rotation (±2 CP) of the reference mark within 30 seconds, then hold CP for 15 seconds (± 5 seconds).
3. Repeat Step 2B three more times, for a total of four rotations (RRS4).
4. After the fourth rotation, hold CP for 60 seconds.

Count rotations carefully. If there is a signal, three rotations will cause a band change. To confirm the mode change was successful, on the locator check both the Up and Down band. For more information, search the **DigiGuide App**

Warranty

A Falcon Tx with Z-Mode has the standard DCI 500 hours/3-year warranty. An extended warranty is available. During active drilling, runtime is being recorded except when the Tx is in Sleep mode and not rotating.

For detailed information, scan the QR code to install the **DCI DigiGuide App** from your smart device's App store. If you have questions, contact your regional DCI office or Customer Service at 1.425.251.0559 or 1.800.288.3610 US/CA.

Watch our DigiTrak training videos at
www.YouTube.com/DCIKent

DIGITAL CONTROL

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