

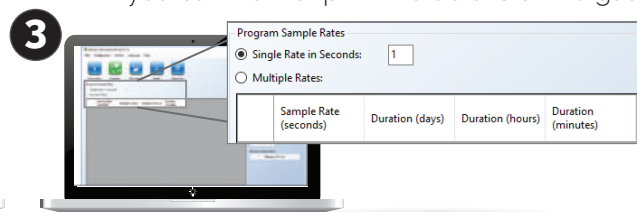


PROGRAMMING - Single step or multiple step programs

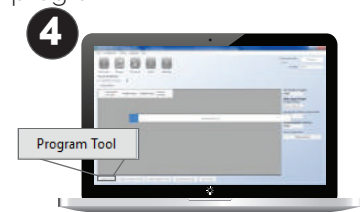
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1. Using DataCan Download Software, connect USB cable to device (by lining up the red dots) and click 'Connect' at the top right of the screen.
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2. Select 'Program' tab.
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3. Input how often you want the tool to record a data set (repeat for multiple step program).

4. Select 'Program Tool' at the bottom left- progress bar will display.

5. Software prompt confirms that gauge was successfully programmed. Now you can view or print the details of the gauge program.
- 


4. Select 'Program Tool' at the bottom left- progress bar will display.


Battery Calculator


Outputs:	
Battery Life (days):	34.5
Battery Life (hours):	829.0
Days Until Memory is Full:	358.4
Hours Until Memory is Full:	8600.6

1. Select 'Battery Calculator' under the utilities tab.
2. Fill in the required information (Tool Type, Expected BHT, Battery Type and Capacity, etc) and click 'Calculate'.
3. The Battery Calculator will output the battery life, as well as the time until the gauge memory is full.

O-Ring Installation

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1. Using a 1-2 foot length of wax string, "walk" the O-Ring over the threads and into the O-Ring gland.
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2. Ensure the O-Ring is placed on the pressure side of the back-up.
- 


3. Apply a minimal amount of lubricant to the O-Rings. DataCan recommends using a high temperature silicone lubricant such as Parker Super-O-Lube or Lubriplate L-461.

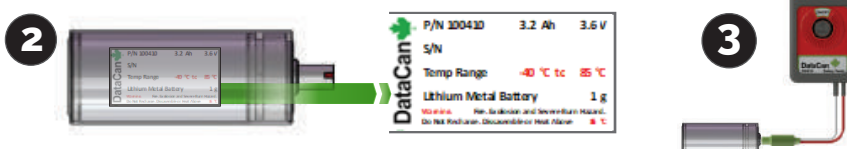
4. Record which material of O-Rings were installed on the **Gauge Operation Sheet**.



Do not put any petroleum-based grease product inside the gauge.

Tool Inspection

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1. Ensure the tool specs meet the requirements of the job. Record the serial number, max pressure and max temperature of the gauge on the **Gauge Operation Sheet**.
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2. Ensure the battery temperature rating exceeds the downhole temperature.

3. Plug the battery pack into the battery tester to ensure pack is reading the correct voltage. Record pack voltage on the **Gauge Operation Sheet**.





It is very important to not exceed the temperature rating of the battery pack. Lithium is a volatile chemical. Over heating a pack could result in the pack exploding.

Tool Assembly


- 1**


Tighten to 20-30 ft-lbs using only wrench flats


1. Thread the bullnose or crossover onto the gauge and tighten to 20-30 ft-lb using only the wrench flats.
 2. Connect the battery pack (by lining up the red dots). After connecting the battery, you will observe 16 red flashes at 1 flash/second. Record the time the battery pack was plugged in on the **Gauge Operation Sheet**. This is your gauge start time.
 3. Thread on the battery barrel housing and tighten to 20-30 ft-lb using only the wrench flats.
- 2**


Should flash 16 times
- 3**



DOWNLOADING DATA

- 2**


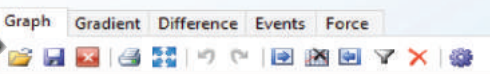
Download steps will vary depending if you are downloading a single job or multiple jobs

 1. Using DataCan Download Software, connect USB cable to device (by lining up the red dots) and click 'Connect' at the top right of the screen.
 2. Select 'Download' tab and select the jobs to download. Click 'Download' at the bottom left of the screen.
 3. Once downloading jobs, you can append (merge) or split files. Enter the output format desired and the job start date and time. Save to folder.
- 3**


VIEWING DATA & REPORTING

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Graph Gradient Difference Events Force




Graph View, edit, and process graph data

Gradient View, save or export gradient data


Difference View graph of the difference between data sets

Events Events added to graph in list form

Force Weight indicator data
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1

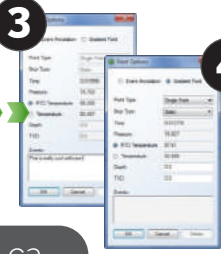
	Elapsed Time (hours)	Pressure (psia)	Temperature (degF)	RTD Temperature (degF)	Events
1	0.000178	14.305	77.905	78.538	
2	0.000556	14.346	77.826	78.943	
3	0.000633	14.504	77.814	78.945	

1. Select job (saved file) to be displayed on graph.
 2. Quick view of selected data set.
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3

Double clicking on graph allows input of gradient or comments.

4



3. Comment tag.
 4. Gradient tag, with option to input type and depth.