



August 28, 2022 - Release 02 (Univ)

ENERGI-PM MOBILE APP QUICK START GUIDE



BE ALERT ON THE JOB SITE

Accidents can occur if the user is not alert and aware of the surroundings. Interface with the Mobile App only when it is safe to do so. Operating machinery while distracted can result in loss of machinery control.

1 DOWNLOAD - INSTALL App

Search “Energi Pressure Management” in the App Store and Google Play Store. Install the App.



Data rates may Apply.
Apple is a trademark of Apple Inc.
App Store is a service of Apple Inc.
Google Play is a trademark of Google Inc.

2 TERMS OF USE / CONNECT

Read and accept the Dinamic Oil North America Terms of Use in order to begin using the Energi Pressure Management mobile App. The Terms of Use are easily accessible from the App home screen.



Connect to “Energi” WiFi network.

Ensure the WiFi module is **ON** in order to connect to your mobile device.

Note - The WiFi network name is also the serial number for the WiFi module (Energi_xxxxxxx).

IMPORTANT!

iOS Users - To establish a reliable connection, the Energi app requires access to your local network. Select **OK** when prompted.

“Energi” would like to find and connect to devices on your local network.

This app will be able to discover and connect to devices on the networks you use.

Don't Allow


OK

3 ADD ANCHOR DRIVE

The Energi App requires the serial number of the Anchor Drive(s) you intend to use.

Select the settings icon  from the home screen.

Select **My Anchor Drives** from settings.

Select the  icon, add the Anchor Drive serial number.

Note: The serial number can typically be found near the top of the bail housing of the Anchor Drive.

4 START NEW JOB

Select **Start New Job** from the main menu to begin using the Energi App.



5 ENTER JOB INFORMATION

Enter all job related information in the required fields.

Note - All fields are mandatory.

Follow prompts and select **Done** to move to the main user interface.

6 ENTER PILE NAME / NUMBER

When all job related information is entered the Energi App is ready for use. A pop-up will appear at the start of all new jobs requiring a **Pile Name**, **Target Torque**, and **Angle** range.

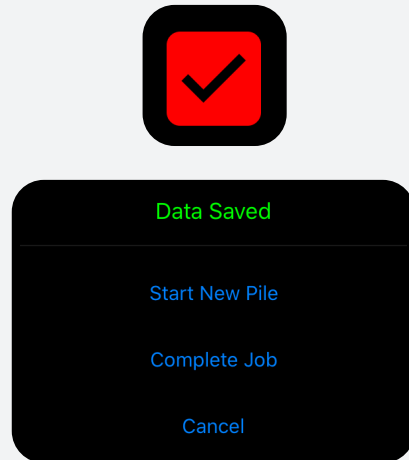
The screenshot shows a dark-themed input form with the following fields and options:

- Pile Name:** A text input field containing "020-1".
- Target Torque (ft-lbs):** A text input field containing "7500".
- Angle (deg):** Two adjacent numeric input fields, the first containing "1" and the second containing "3".
- Navigation:** "Back" and "Done" buttons at the bottom.

Enter information and select **Done**.

9 COMPLETE PILE / JOB

Select the End Pile/Job button to complete the pile or job. Follow prompts accordingly.



7 RECORDING

The App will begin recording data when the recording button near the bottom of the screen is selected. The recording method is based on the mode (Standard or Select) chosen during the job setup process.



STANDARD Recording Mode Icon



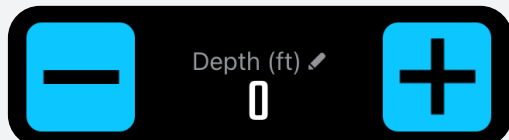
PAUSE Icon - only used with STANDARD Mode.



SELECT Recording Mode Icon

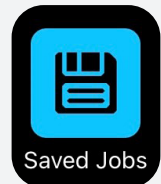
8 DEPTH (STANDARD MODE)

Select the + or - buttons in Standard mode to add pile length (depth) to the data being recorded.



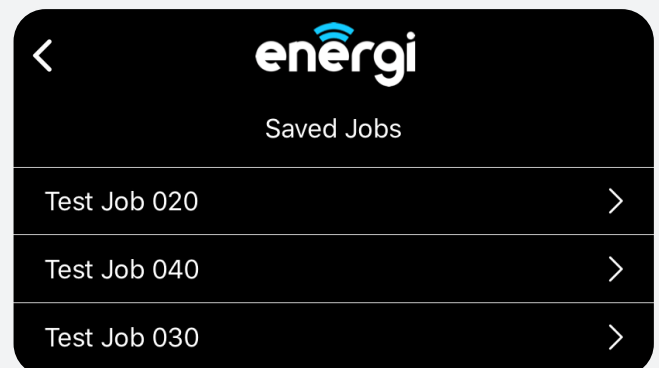
10 ACCESS SAVED JOBS

Select **Saved Jobs** from the home screen to view all saved job reports.



11 SAVED JOBS / REPORTS

Select the Job name to review the Job or Pile report.



12

SAVED JOBS REPORTS

Select the Job or individual pile name to view the report. Reports are saved as PDF files.

iOS Device - The report will open automatically using the iOS PDF viewer.

Android Device - The user will need to select a PDF viewer to access and view the report.

Note: The Job Summary report compiles the job data and in several areas provides averages of a specific Pile. **For specific Pile installation data that is not averaged view the Individual Pile Record.**

IMPORTANT! All report data is saved locally on your mobile device. It is highly recommended to email the reports from your mobile device as a precaution. If your mobile device is damaged or lost the data can not be recovered.



Example of Job Summary Report

Job Summary		Test Job 30			
(Page 1 of 1)		Job Name			
Job Name / Number:	Test Job 30	Anchor Drive Model:	SA7; SA12		
Customer Name:	ABC Construction Company, LLC	Conversion Factor:	100; 250		
Location:	Charlotte, NC	WiFi Module Serial No.:	Energi_0122505		
Time Zone:	America / New York				
Pile Name	Date	Duration (min)	Peak Torque (ft-lbs)	Target Torque (ft-lbs)	Final Depth (ft)
AN001	12/16/20	4.93	31029	30000	56
AN002	12/14/20	15.08	7345	7000	45
AN003	12/14/20	20.98	7239	7000	45
AN004	12/14/20	21.53	7498	7000	58
AN005	12/14/20	30.93	7128	7000	55
AN006	12/14/20	6.82	7654	7000	60
AN007	12/14/20	6.87	7233	7000	42
AN008	12/14/20	5.82	7221	7000	55
AN009	12/14/20	4.93	7112	7000	39
AN010	12/14/20	15.08	7122	7000	45
AN011	12/14/20	20.98	7099	7000	55
AN012	12/14/20	21.53	7056	7000	58
AN013	12/14/20	30.93	7102	7000	65
AN014	12/14/20	6.82	7095	7000	70
AN015	12/14/20	6.87	7211	7000	45
AN016	12/14/20	5.82	7298	7000	45
AN017	12/14/20	4.93	7104	7000	55
AN018	12/14/20	15.08	7023	7000	95
AN019	12/14/20	20.98	7122	7000	60
AN020	12/14/20	21.53	7321	7000	60
AN021	12/28/20	30.93	7502	7000	60
AN022	12/28/20	6.82	7485	7000	55
AN023	12/28/20	6.87	7681	7000	45

13 SAVED PILE REPORTS

The information shown on the report is controlled by the **Report Settings** in the Setting Menu.

When a field is turned off in the Report Settings menu it is also removed from the report. If you do not see a particular field shown on the report check the Report Settings menu. Fields can be turned off and on at any time.

The Individual Pile report includes - Date, Time, Torque, Depth, Speed, Angle, and Differential Pressure. Target Torque, Peak Torque and Final Depth are shown in the top right of the report.

Report Settings

Show Target Torque	<input checked="" type="checkbox"/>
Show Peak Torque	<input checked="" type="checkbox"/>
Show Depth	<input checked="" type="checkbox"/>
Show Angle	<input checked="" type="checkbox"/>



Example of Individual Pile Report

<h2 style="margin: 0;">Helical Pile Installation Record</h2> <p style="margin: 0;">(Page 1 of 2)</p>	<h2 style="margin: 0;">AN001</h2> <p style="margin: 0;">Pile Name</p>																																																																																																									
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MAIN MENU REFERENCE

The image shows a smartphone screen displaying the main menu of the Energi mobile app. The app's logo, "energi PRESSURE MANAGEMENT", is at the top. The menu consists of six blue square buttons arranged in a 3x2 grid. Each button has a white icon and a label below it. Lines connect each button to a text box describing its function. At the bottom of the screen is the "dinamic oil" logo.

Start New Job
Select to begin sequence to start new job.

Saved Jobs
Select to access saved job records. Job summary pages and individual helical pile records are saved in this section as PDF files.

Quick Start Guide
Select to access the Quick Start Guide PDF file. Provides basic operating instructions for the Energi App.

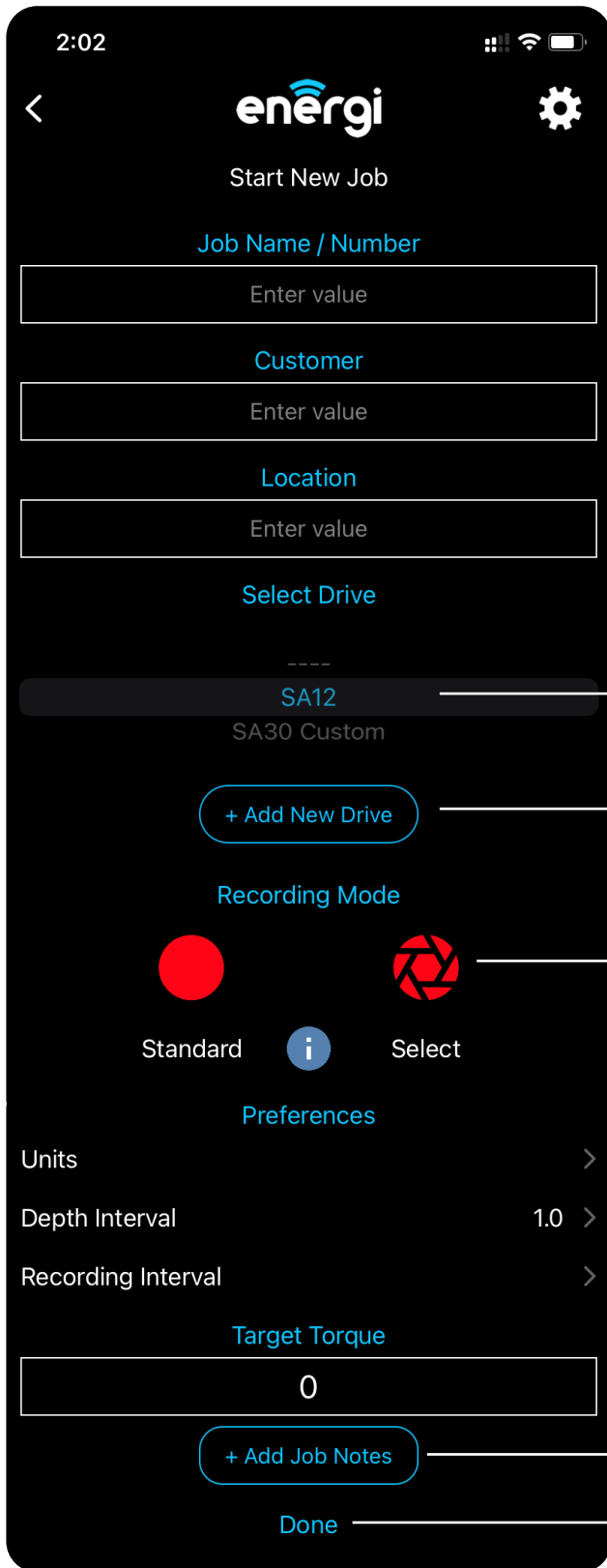
Diagnostics
Select to access the diagnostics display to see basic functions. This feature is used for testing not for recording installation data.

Equations
Helpful equations to calculate performance values.

Terms of Use
Select to access the Energi mobile App Terms of Use agreement.

ENTER JOB MENU REFERENCE

Enter all job related information in the Appropriate areas.



- Enter Job Name
- Enter Customer Name
- Enter Job Location
- Select Anchor Drive
List will be populated with Anchor Drive models from My Anchor Drives.
- A new Anchor Drive can also be added to the My Anchor Drives list by selecting **+ Add New Drive**. This is only necessary if the Anchor Drive model wanted is not shown. **See page 10 for conversion factors.**
- Choose from two recording modes:
Standard - Records data continuously and can be paused as needed.
Select - Records data only when the user selects the record button. Captures a snapshot of current data.
- Select Units of Measure (Imperial or Metric)
- Enter Depth Interval based on unit of measure selected
- Enter Recording Interval (1, 5, 10, or 30 seconds)
*Not available in Select Mode
- Enter Target Torque for the first pile
- Select to enter text field to add additional info/notes
- Select Done to go to main UI Screen

CONVERSION FACTOR

Add New Drive

Drive Name

Conversion Factor (Nm/bar)

0

i

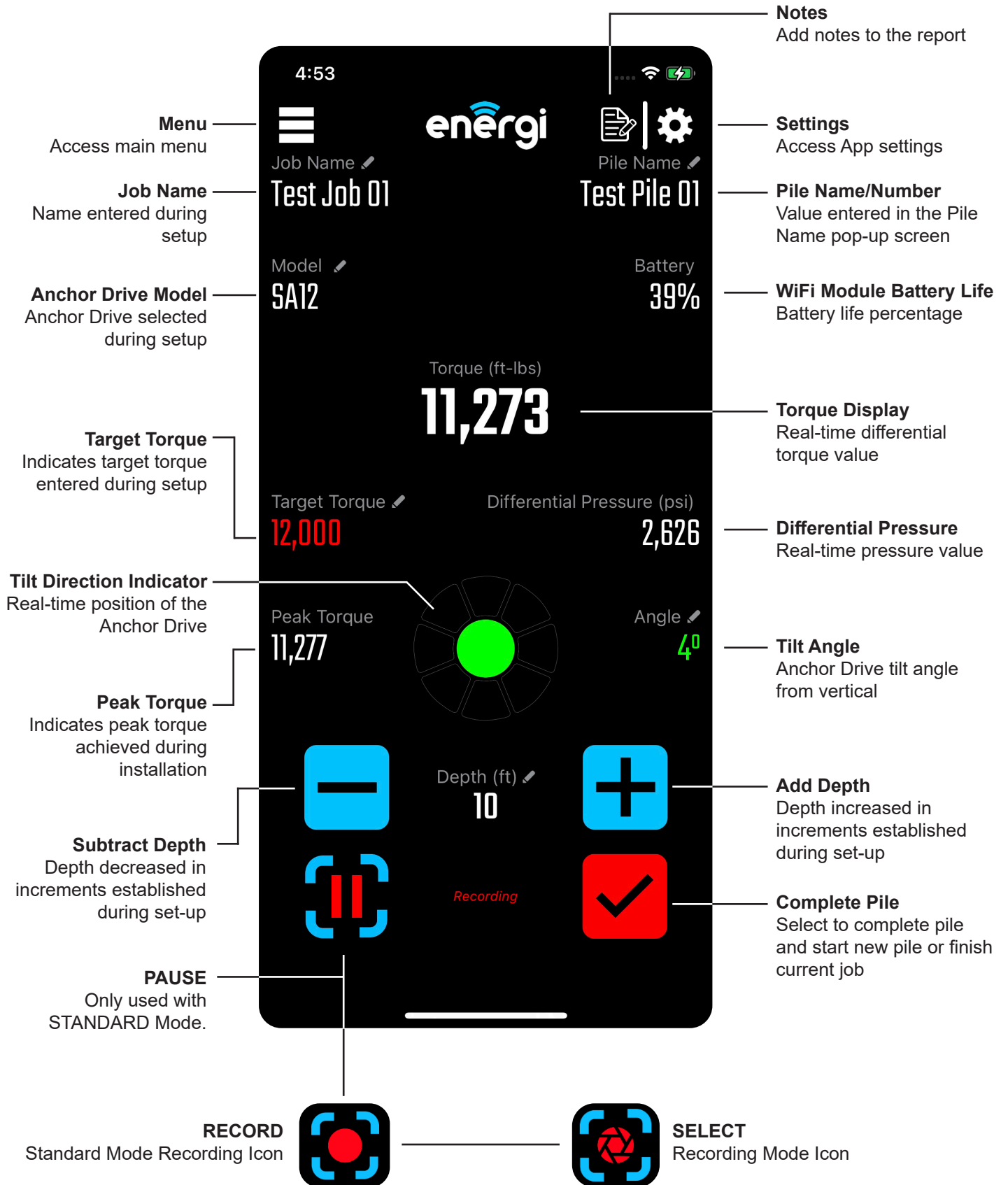
Done
Cancel

To calculate the needed conversion factor, divide max torque by max pressure.

$$\frac{\text{Torque (Nm)}}{\text{Pressure (Bar)}} = \text{Conversion Factor}$$

Example:
17,461 Nm / 207 Bar = 84.35

MAIN ENERGI PRESSURE MANAGEMENT SCREEN REFERENCE



DIAGNOSTICS SCREEN REFERENCE

Diagnostics Mode is used to ensure all critical aspects of the Energi system is functioning properly. Diagnostics mode is helpful in troubleshooting in the event the Energi system is experiencing operating issues.

Diagnostics Mode should NOT be used to record important job related installation data.

The screenshot shows the Energi Diagnostics interface with the following elements and callouts:

- Pressure Port A:** Access main menu (points to the hamburger menu icon).
- Torque Display:** Real-time torque value (points to the large '7,725' display).
- Pressure Port B:** Add notes to the report (points to the 'Pressure B (psi)' field).
- Tilt Angle:** Anchor Drive tilt angle from vertical (points to the 'Angle' field).
- WiFi Module Temp:** Indicates the internal temperature of the WiFi module (points to the 'Temperature' field).
- Complete / End:** Select to complete diagnostics session recording (points to the red checkmark button).
- RECORD:** Select to start recording data. (points to the external RECORD button below the screen).

IMPORTANT!
The data recorded in Diagnostics mode is only exported in .CSV file format. The .CSV file is not saved. View and export immediately after completing the diagnostics.

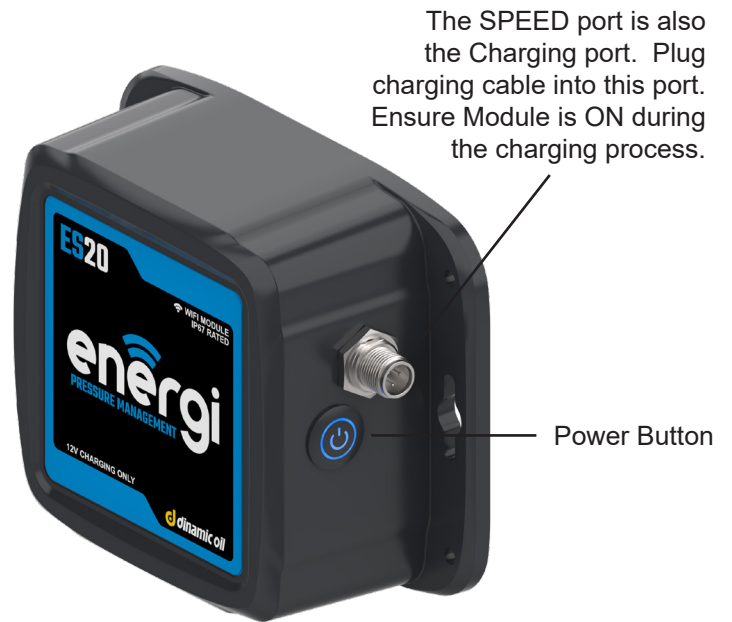
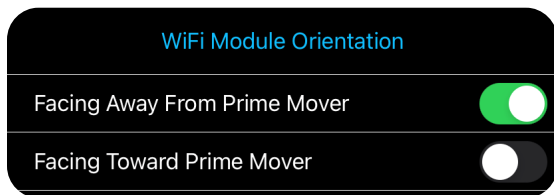
WiFi MODULE INFORMATION

WiFi MODULE CHARGING

To charge the WiFi Module - Connect the charging cable to the SPEED/CHARGING port and provide power. **The WiFi Module should be ON during charging** and the power button will pulse (blink) during the charging process.

WiFi MODULE LOCATION

The module must be placed on either the front or back surface of the Anchor Drive for the Tilt Direction (inclinometer) to work correctly. The orientation can be changed in Settings under the **WiFi Module Orientation** menu.



RECORDING MODES AND OPTIONS

The Energi App can record installation data in several different ways:



STANDARD MODE

Records data continuously and can be paused as required.



SELECT MODE

Records data only when the user selects the record button. Captures a snapshot of current data.



BURST MODE

Burst recording is activated when the user presses and holds (long press) on the recording button. The Burst function allows the user to capture a series of data points in quick succession.

- In Standard Mode: *Press and Hold the Pause recording button.*

- In Select Mode: *Press and Hold the Select recording button.*



DIAGNOSTICS MODE

Records data continuously and can be paused while in Diagnostics mode. Note - Diagnostics will produce a .CSV file

IMPORTANT - All report data is saved locally on your mobile device. It is highly recommended to email the reports from your mobile device as a precaution. If your mobile device is damaged or lost the data can not be recovered.

EDIT OPTIONS

Any field that has the Pencil Icon near it can be edited. Press the Pencil Icon and follow the prompts to complete the edit.



Example of Pencil Icon

CONVERSION FACTORS

SA Series Conversion Factor	Nm / Bar	Ft-Lbs / PSI
SA5	40.15	2.04
SA6	49.18	2.50
SA7	58.06	2.95
SA8	58.06	2.95
SA12	84.35	4.29
SA16	112.68	5.73
SA20	147.60	7.51
SA30	202.45	10.30

TA Series Conversion Factor	Nm / Bar		Ft-Lbs / PSI	
	High Sp.	Low Sp.	High Sp.	Low Sp.
TA16	75.77	113.66	3.85	5.78
TA20	99.57	141.32	5.06	7.19
TA40	176.76	265.53	8.99	13.50
TA60	125.32	250.64	6.37	12.75
TA80	157.91	315.81	8.03	16.06
TA100	205.70	411.40	10.46	20.92
TA200	398.68	797.35	20.27	40.55
TA300	597.48	1194.95	30.38	60.77

NOTE - The TA Series models are two-speed and require a minimum and maximum conversion factor. It is recommended to create two Drive models labeled "HS" and "LS" and switch between the two during operation.

ADDITIONAL HELPFUL INFORMATION

PRESSURE TRANSDUCERS

Pressure transducers are provided with the Energi Pressure System. Fittings to install the transducers are not included.

MULTIPLE USERS

The Energi App can be used by two different users at the same time. Each user can set their own settings and record data independently.

SAVED REPORT MANAGEMENT

All report data is saved locally on your mobile device. It is highly recommended to email the reports from your mobile device as a precaution. If your mobile device is damaged or lost the data can not be recovered.

FORMATING REPORTS

Reports can be created and reformatted with different fields at any time. The reports regenerate each time a user recalls the reports, enabling the data to be formatted with as much or as little information as needed.

ERROR LOGS

Error logs can be emailed from your mobile device. See General Settings, select Send Error Logs and follow the prompts.

JOB NOTES

The user can add notes to the individual pile report by selecting the notes icon in the top right of the main user screen. The notes will appear on the PDF report after the pile is complete.

ADD / SUBTRACT DEPTH RECORDING

When the user selects the + or - depth buttons a data point will be recorded. This feature can be used when completing a pile to ensure the final depth and torque values are aligned.

CHANGE DRIVE DURING JOB

The Drive model can be changed during a job by selecting the pencil icon and following the prompts. The user will be asked to confirm they are using the correct WiFi network before proceeding.

Stay current and explore new and improved Dinamic Oil products and features.
Visit www.dinamicoil.us for all the latest news and product information.

