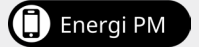


# TORQUE MONITORING



## OPTIMIZED FOR ANY MAKE OR MODEL

Energi Pressure Management easily adapts to any make and model of Anchor Drive. Combining tried and true pressure monitoring with next-generation data acquisition technology, Energi-PM uses your mobile device to monitor and record helical pile installations. Features include real-time data monitoring and preformatted reports.



Use your mobile device to conveniently manage and record your helical pile installations using the free mobile app for either iOS® or Android®.

Send all recorded data in PDF format directly from your mobile device.

### Monitors and Records:

- Calculated Torque
- Differential Pressure
- Depth
- Angle
- Time & Date
- Drive Model
- Job Notes
- Pile Names/Numbers



### Energi Wi-Fi Module Features:

- IP67 Rated
- 40 Hour Battery Life
- Polycarbonate Housing
- Illuminated Power Button
- 100 Yards Wi-Fi Range
- Integrated Sleep Mode
- Operating Diagnostics (App)
- Internal Temp. Monitoring
- Easy Removal for Charging

October 30, 2023 . Release 02



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**HOW IT WORKS**

Energi-PM utilizes two pressure transducers to capture actual working pressure at the Anchor Drive. The Energi WiFi module calculates a torque value based on the differential pressure measured at the hydraulic motor of the Anchor Drive. The result is an accurate and effective method of generating differential torque for any make or model of Anchor Drive.

**EASY TO USE**

The Energi-PM mobile app is intuitive to use, and installing the IP67 rated WiFi module with it's 40-hour battery life is simple. No electrical or power supply wiring is required. Just plug and play!

**RELIABLE TECHNOLOGY**

Energi-PM uses a WiFi signal with range of 100 yards to communicate with your mobile device. Reliable communication is a must when capturing data!



All recorded data is formatted into a user-friendly preformatted PDF reports. All recorded jobs include a Summary Report which provides an overview of the entire job and Individual Pile Reports that provide in-depth installation data on each helical pile.

**Summary Report**

**Job Summary**  
(Page 1 of 1)

Job Name / Number: Foundation 051021  
Customer Name: ABC Construction Company, LLC  
Location: 1234 Main Street, Smithville, NC  
Time Zone: America/New\_York  
Anchor Drive Model: SA7  
Anchor Drive Serial No.: 1234567  
Calibration Due: 01/01/2022  
WiFi Module Serial No.: 1234567

**Foundation 051021**  
Job Name

Pile Name	Date	Duration (min)	Peak Torque (ft-lbs)	Target Torque (ft-lbs)	Final Depth (ft)	Angle Ave (deg)
AND01	12/15/20	4.93	7,357	7,000	32	3
AND02	12/15/20	15.08	7,345	7,000	45	2
AND03	12/15/20	20.98	7,239	7,000	45	4
AND04	12/15/20	21.53	7,498	7,000	58	4
AND05	12/15/20	30.93	7,128	7,000	55	1
AND06	12/15/20	6.82	7,554	7,000	60	2
AND07	12/15/20	6.87	7,233	7,000	42	5
AND08	12/15/20	5.82	7,221	7,000	55	3
AND09	12/15/20	4.93	7,112	7,000	39	2
AND10	12/15/20	15.08	7,122	7,000	45	4
AND11	12/15/20	20.98	7,099	7,000	55	4
AND12	12/15/20	21.53	7,056	7,000	58	1
AND13	12/15/20	30.93	7,102	7,000	65	2
AND14	12/15/20	6.82	7,095	7,000	70	5
AND15	12/15/20	6.87	7,211	7,000	45	3
AND16	12/15/20	5.82	7,298	7,000	45	2
AND17	12/15/20	4.93	7,104	7,000	55	4
AND18	12/15/20	15.08	7,023	7,000	95	4
AND19	12/15/20	20.98	7,122	7,000	60	1
AND20	12/15/20	21.53	7,321	7,000	60	2
AND21	12/29/20	30.93	7,502	7,000	60	5
AND22	12/29/20	6.82	7,485	7,000	55	1
AND23	12/29/20	6.87	7,681	7,000	45	3
AND24	1/7/21	5.82	7,305	7,000	45	2
AND25	1/7/21	5.01	7,129	7,000	60	3

**Job Notes**

- Host Machine / Prime Mover: Bobcat E-55
- Excavator Auxiliary Relief Pressure Set to 3000 PSI
- Excavator Auxiliary Relief Pressure Set to 21 GPM
- Plans, Permit Set Dated February 10, 2021
- Required Installation Torque 7,000 Ft-Lbs
- Maximum Material Yield Strength 12,500 FT-LBS
- Helical Pile Blade Configuration 10" / 12" / 14"
- Helical Pile Shaft O.D. 3"

The information contained herein is expressly intended to serve as a "torque monitoring service" only. Dinamic Oil North America expressly disclaims all liability for any other use, including, but not limited to, replacement or suppression of relevant legal requirements such as "load test data", "load tests", "control tests", or any similar testing requirement. Please see the Dinamic Oil North America App Terms of Use for further information.

**Individual Pile Report**

**Helical Pile Installation Record**  
(Page 1 of 2)

Job Name / Number: Foundation 051021  
Customer Name: ABC Construction Company, LLC  
Location: 1234 Main Street, Smithville, NC  
Anchor Drive Model: SA7  
Anchor Drive Serial No.: 1234567  
Calibration Due: 01/01/2022  
WiFi Module Model No.: ESN000001

**AN001**  
Pile Name

**Installation Summary**

Target Torque: 7,000 ft-lbs  
Peak Torque: 7,357 ft-lbs  
Maximum Depth: 32 ft  
Angle Average: 3°

Date	Time	Torque (ft-lbs)	Depth (ft)	Angle (deg)	Differential Pressure (psi)
12/15/20	12:39:01 PM	0	0	1	4
12/15/20	12:39:02 PM	0	-	1	9
12/15/20	12:39:03 PM	0	-	1	12
12/15/20	12:39:04 PM	123	-	3	38
12/15/20	12:39:05 PM	355	-	2	127
12/15/20	12:39:06 PM	680	3	1	221
12/15/20	12:39:07 PM	999	-	1	350
12/15/20	12:39:08 PM	1,245	-	3	407
12/15/20	12:39:09 PM	1,598	-	4	557
12/15/20	12:39:10 PM	1,891	6	5	646
12/15/20	12:39:11 PM	2,151	-	4	745
12/15/20	12:39:12 PM	2,333	-	5	797
12/15/20	12:39:13 PM	2,567	-	4	847
12/15/20	12:39:14 PM	2,958	9	2	947
12/15/20	12:39:15 PM	3,010	-	3	1,026
12/15/20	12:39:16 PM	3,322	-	1	1,117
12/15/20	12:39:17 PM	3,756	-	1	1,253
12/15/20	12:39:18 PM	3,999	12	3	1,369
12/15/20	12:39:19 PM	4,101	-	2	1,387
12/15/20	12:39:20 PM	4,386	-	1	1,471
12/15/20	12:39:21 PM	4,693	-	1	1,580
12/15/20	12:39:22 PM	6,198	15	3	1,659
12/15/20	12:39:23 PM	6,094	-	2	1,735
12/15/20	12:39:24 PM	6,111	-	1	1,847
12/15/20	12:39:25 PM	6,101	-	1	1,926
12/15/20	12:39:26 PM	5,888	-	3	1,846
12/15/20	12:39:27 PM	5,801	18	4	1,996
12/15/20	12:39:28 PM	5,888	-	5	1,996
12/15/20	12:39:29 PM	5,968	-	1	2,025
12/15/20	12:39:30 PM	6,202	-	2	2,091
12/15/20	12:39:31 PM	6,289	21	3	2,134
12/15/20	12:39:32 PM	6,211	-	4	2,125
12/15/20	12:39:33 PM	6,321	-	3	2,155

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