UTILITY

SMART ANCHOR MONITOR

WIRELESS ANCHOR TORQUE MONITORING SYSTEM

ECP Smart Anchor Monitor is an innovative monitoring system designed to provide real-time data and insights into the performance and condition of utility anchors, such as guy wires for utility poles, towers, and other structures.

BENEFITS & FEATURES

- State of The Art Wireless Technology
- Highly Accurate Torque Monitoring Capabilities
- Torque, RPM, Angle, Depth & Location Monitoring
- Easy To Use
- Extremely Rugged Design (IP67 Rated)
- No Need to Ever Calibrate a Drive Head Again
- Logged Data Can Be Exported to Third Party Software
- GPS Capable
- Connects to Current Tooling



S.A.M. – 10 10,000 ft-lb model fits 5-1/4" Bolt circle
S.A.M. – 25 25,000 ft-lb model fits 7-5/8" Bolt circle

REMOTE ACCESS

Users can access monitoring data remotely via a secure online platform or mobile app, allowing for convenient monitoring and management from anywhere with an internet connection.



REPORT INCLUDES

- Coversheet & Individual Pile Logs
- Individualize Your Log Reports With Company Name & Logo
- Standard & Customized Reporting
- Available With Cloud Service

ECP S.A.M. is revolutionizing the industry. No longer do engineers and linemen have to rely on highly inaccurate monitoring systems. If you are not utilizing the ECP S.A.M. technology then you competition is one step ahead of you

1-866-327-0007 **www.getecp.com** **ECP UTILITY**

SPECIFICATIONS

	H200	H300	S400	S1250	S2500	S4000	Units
Calibrated Torque Rating	10,000 (13,558)	25,000 (33,895)	60,000 (81,349)	125,000 (169,477)	250,000 (338,955)	400,000 (542,327)	lb. ft (Nm)
Max Torque Rating	12,000 (16,270)	32,000 (43,386)	67,000 (90,840)	140,000 (189,815)	265,000 (359,292)	415,000 (562,664)	lb. ft (Nm)
Calibrated Thurst Rating	33 (14,969)	33 (14,969)	33 (14,969)	33 (14,969)	33 (14,969)	33 (14,969)	klbf (kgf)
Operating Temperature Range	-20 (-29) to 120 (49)						°F (°C)
Operating Voltage	3.6						V
Data Output Rate	10						SPS
Non-linerity Accuracy	0.025						%

1.0 Torque Monitoring System

A ECP SAM Wireless Torque Monitoring System shall be used to measure and record installation torque and inclination during installation of all helical piles and helical anchors. The torque monitoring system shall be capable of torque measurements with a sensitivity of 10 ft-lb or less with an accuracy variable of 3%.

2.0 Torque Monitoring System Calibration

The ECP SAM Wireless Installation Monitoring System shall have been calibrated within 1year prior to starting helical pile or helical anchor installations. The Installation Contractor shall present a copy of the Calibration Certificate to the engineer of record, the engineer's designee or to the Owner. The Calibration Certificate shall include but not be limited to the following information:

1) Manufacturer(s), Serial Numbers and Descriptions of Calibration Equipment
2) ECP SAM Serial Number Being Calibrated
3) Calibration Data Including: RIG Input LB/FT, SAM FT/LB, ERROR LB's/FT, FSD ERROR %
4) Calibration Date
5) Printed or Typed Name and Signature of Certified Calibration Engineer

3.0 ECP SAM Wireless PDA for Monitoring Torque and Inclination

The Installation Contractor shall at all times during the installation process make available to the engineer of record, the engineer's designee or to the Owner, one or more ECP SAM Wireless torque monitoring device(s) for viewing real-time torque values and inclination during helical pile or helical anchor installation.

4.0 ECP SAM Installation Data Logs

The Installation Contractor shall upload the installation torque and inclination raw data for each helical pile or helical anchor from the ECP SAM Wireless device and provide the raw data to the engineer of record, the engineer's designee or the Owner. In addition, the following minimum information shall accompany the raw data:

1) Name of project
2) Name of Installation Contractor
3) Name of Installation Contractor's equipment operator and/or supervisor
4) Date and time of installation
5) Serial number of ECP SAM Wireless Torque Monitoring System
6) Location of helical pile or helical anchor by assigned identification number
7) Installation torque of helical pile or helical anchor at one-foot intervals for the final 10 feet
8) Inclination of helical pile or helical anchor
9) Total length of installed helical pile or helical anchor
10) Number of rotations
11) Installation RPM's