

98%

Accurate Torque Measurement and Data Logging System for Helical Pile Installers

INNOVATIVE

FOUNDATION SOLUTIONS LTD.

www.ifsequip.com

99% Accurate Torque Readings

Innovative Foundation Solutions' Torq Pin systems are in use worldwide and have an excellent reputation for accruacy, durability and after sales support. Utilizing our patented strain gauge technology, it delivers over 99% accurate torque readings. Data is sent over a wired or wireless connection (a robust 2.4 GHz RF FHSS signal to the handheld display/datalogger)

The Torq Pin measures and records torque, inclination and offers the user the opportunity to manually enter pile depth as well as other job specific information.

This torque monitoring and data logging device is intended to replace the OEM pin on the top of the drive head casing. IFS offers pins from stock for all major manufacturers' drive heads, and can provide custom pins upon request. The Torq Pin is designed for rigid mount applications. If mounting to any type of telescopping (or other non-rigid) booms, the IFS Torq Hub is a better choice for the application.

Hardwired or Wireless Options





Wireless signal is 2.4 GHz FHSS RF. Outdoor range — up to 2.5 miles (4 km) Frequency Hopping Spread Spectrum technology allows clear communication across up to 79 frequencies

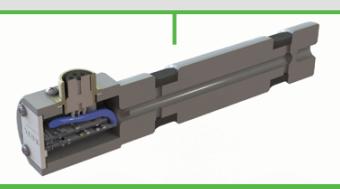
Hardwired/ cable connections are all rugged, overmolded, sheathed cable assemblies with Amphenol Mil-Spec threaded connections.



Electronics fully potted, gasketed and sealed to protect from environment. Calibration data is stored on internal, non-volatile memory.

Torq Pins are available from stock for all major OEM drive head models. Other sizes available on request.

Circut boards, firmware and software all designed for specific standards for the application. Fully potted, sealed, gasketed and cushioned to ensure maximum protection and long life.





7" Windows OS LCD touchcreen in a rugged ABS casing. Designed to IP67 ingress protection.

Circut boards, firmware and software all designed for specific standards for the application. Fully potted, sealed, gasketed and cushioned to ensure maximum protection and long life.

Improved Reporting



IFS is pleased to introduce our vastly improved reporting capabilities.

- Reports are exportable directly from the display, either via email using a smartphone with its' hotspot enabled, or through the onboard USB port connected to a flash drive.
- Reports are exported as both bare data (.dat file open with Excel), and as a PDF line chart as shown below. One cover page for the job and a page for each individual pile is generated.
- Additionally, the PDF line chart will show depth as it is entered during the job. This will give the engineer a view of depth vs. torque on each pile. An optional hand held trigger is available which allows the operator (or his helper) to depress it when the pile/ anchor reaches a marked depth, allowing a more accurate (and more continuous) representation of torque vs. time"

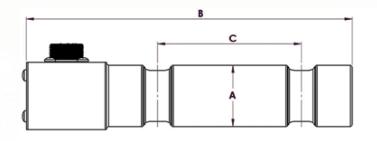


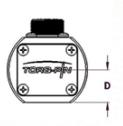
Smartphone Apps

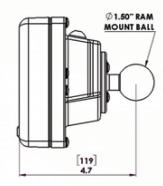


IFS is now offering a free smartphone app for both iOS (Apple) and Android (Samsung, etc) users.

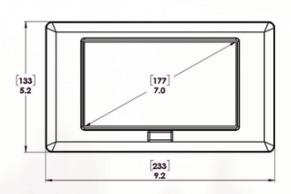
- Available for FREE download from either the Apple App Store or Google Play.
- Allows a user to remotely monitor torque and inclination data for piles/ anchors as they are installed via a WiFi connection between their smartphone and our display.







Rated Output (R.O):	2 mV/V nominal
Nonlinerarity:	0.1% of R.O.
Hysteresis:	0.1% of R.O.
Nonrepeatability:	0.05% of R.O.
Zero Balance:	1.0% of R.O.
Compensated Temp. Range:	60° to 160°F
Safe Temp. Range:	-65° to 200°F
Temp. Effect on Output:	0.005% of Load/°F
Temp. Effect on Zero:	0.005% of R.O./°F
Terminal Resistance:	350 ohms nominal
Excitation Voltage:	5 VDC



MFG/MODEL	A-DIAMETER	B-OAL	C-SPACING	D-ANTI-ROTATION	CTS P/N
PENGO CLASS 1	1.772" [45mm]	9.63" [244mm]	4.25" [108mm]	0.969" [24.6mm]	TPPECL1
PENGO CLASS 2	2.953" [75mm]	12.63" [321mm]	6.25" [159mm]	1.554" [39.5mm]	TPPECL2
PENGO CLASS 3	3.976" [101mm]	28.5" [724mm]	11.5" [292mm]	2.00" [50.8mm]	TPPECL3
PENGO CLASS 4	4.500" [114.3mm]	33.38" [848mm]	18.5" [470mm]	2.275" [57.8mm]	TPPECL4
DIGGA PDI 9-30	1.772" [45mm]	9.63" [244mm]	4.25" [108mm]	0.969" [24.6mm]	TPDIGPD
DIGGS SD	2.953" [75mm]	13.68" [348mm]	5.35" [136mm]	1.554" [39.5mm]	TPDIGSD
DIGGA MD/ UD	3.812" [97mm]	17.0" [432mm]	8.07" [205mm]	2.082" [52.9mm]	TPDIGMD/UD
DIGGA XD	4.724" [120mm]	22.98" [584mm]	12.0" [305mm]	2.490" [63.2mm]	TPDIGXD
ESKRIDGE 1-1/4"	1.260" [32mm]	14.00" [356mm]	6.38" [162mm]	0.969" [24.6mm]	TPESD767778
ESKRIDGE 1-1/2"	1.500" [38mm]	14.00" [356mm]	6.38" [162mm]	0.969" [24.6mm]	TPES767778
ESKRIDGE 2"	2.000" [51mm]	16.94" [430mm]	6.38" [162mm]	1.093" [27.8mm]	TPES75
ESKRIDGE D440-D1400	4.000" [102mm]	24.66" [627mm]	16.19" [411mm]	2.125" [54.0mm]	TPESD1400
ESKRIDGE DH375	4.500" [114mm]	39.62" [1007mm]	29.25" [743mm]	2.275" [57.8mm]	TPESDH375



Distributor: