TAC FM 2.4 GHz Preset Wireless Click Wrench

TAC
(Torque/Angle Control) Series

- Provides the speed and access of a click wrench with the accuracy of torque and angle applications. Operator sees OK/NOK LED and the reporting documents date/time stamped attribute data including degree of rotation (angle measurements.)
- Fully compatible traceable torque and angle results with the Global 400, Global 400mp and the all-new TCV-e2.
- Supports simultaneous operation in the Global 400 and TCV-e2 application. Use with Global 400mp for independent tool operation.
- It also works with the patented Holding Tool in the Global 400/400mp.
- Torque accuracy of +/- 4% or better of preset value from 20% to 100% of capacity meets or exceeds requirements of ASME B107.300-2010 and ISO 6789. Angle accuracy to within 1°.
- Is equipped with 2 LEDs on the radio case. One LED is Green/Red for OK/NOK. The second LED flashes Blue to indicate tool is selected and turns Blue during use for batch completion.
- Access to well over 200 SR interchangeable heads.
- Excellent audible/tactile pulse when preset torque is achieved and the wrench clicks.
- Powered by one AAA NiMH rechargeable battery.
- Error Proofing By Guidance: Provides “OK/NOK” LED on the radio case on the wrench.
  - o When P-Set is activated Blue LED indicates selected tool.
  - o Differentiating sounds for acceptance tone/reject beep comes from the controller
  - o Orange flashing LED: Low battery warning light

A NiMH rechargeable AAA battery is the mandated power supply because they provide a stable power curve until the very end of the charge. We are also focused on environmental friendliness. Using NiMH AAA with the largest mAh rating you can find will extend time between battery changes.

Torque and Angle Measurement Modes:

Click: Reads where the wrench clicks

Peak: Reads the highest applied torque value

Torque and Angle Monitoring (TAM): Quickly identifies “double hit” on fasteners. Identifies changing joint conditions for hydraulic connections. Shows both applied torque value and degrees of rotation. Minimum and maximum angle settings are customizable.

Global 400 Global Controller

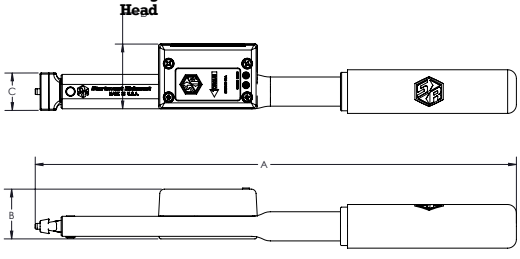
Global 400 mp Global Controller

Torque & Angle

TCV e2 Torque Control Verifier - Ethernet

Wireless

Interchangeable Head



⚠WARNING

- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- See safety precautions at srtorque.com

Part No.	Model	Torque Capacity*	Head	A (in.)	B (in.)	C (in.)	D (in.)	Weight (lbs.)
810712	TAC-150I	150 in lb / 17 Nm	Dovetail	7 3/32	1 21/64	15/16	1 47/64	0.5
810713	TAC-300I	300 in lb / 34 Nm	Dovetail	9 1/32	1 21/64	15/16	1 47/64	0.5
810714	TAC-750I	750 in lb / 85 Nm	Dovetail	12 53/64	1 21/64	1	1 47/64	0.5
810715	TAC-1800I	1800 in lb / 204 Nm	Dovetail	16 3/16	1 21/64	1 1/4	1 47/64	1.3
810721	TAC-1800I ERGO	1800 in lb / 204 Nm	Dovetail	20 9/16	1 21/64	1 1/4	1 47/64	1.3
810723	3TAC 750I	750 in lb / 85 Nm	3/8" SD Ratchet	14 23/64	1 21/64	1 3/8	1 47/64	1.3
810725	4TAC 1800I ERGO	1800 in lb / 204 Nm	1/2" SD Ratchet	22 45/64	1 21/64	1 61/64	1 47/64	1.8

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Changing Operator Behavior by Behavior Modification

A click wrench is designed to click at a predetermined point. For this application this value is called Click. An operator should stop pulling when the wrench clicks. This ensures the proper torque application. If operators don't stop pulling when the wrench clicks, the applied torque continues to increase. The question becomes "How much additional torque was applied?"

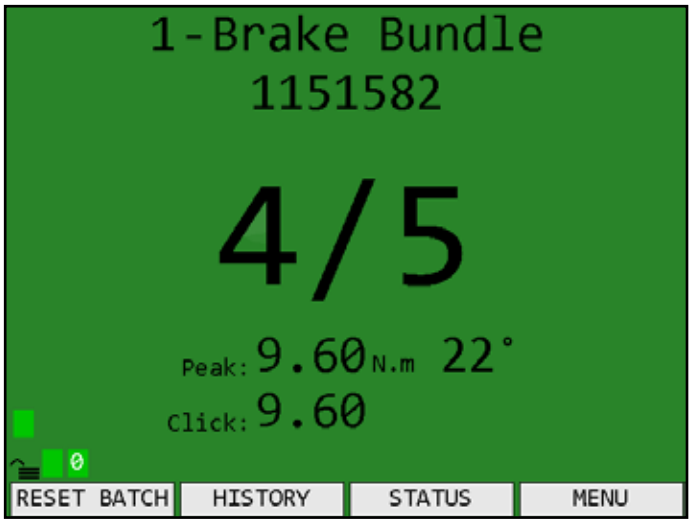
If you measure Click, the measurement is taken at the point where the wrench clicked. The additional torque remains unmeasured. Until now!

The TAC wrench quickly and easily solves this long-standing challenge.

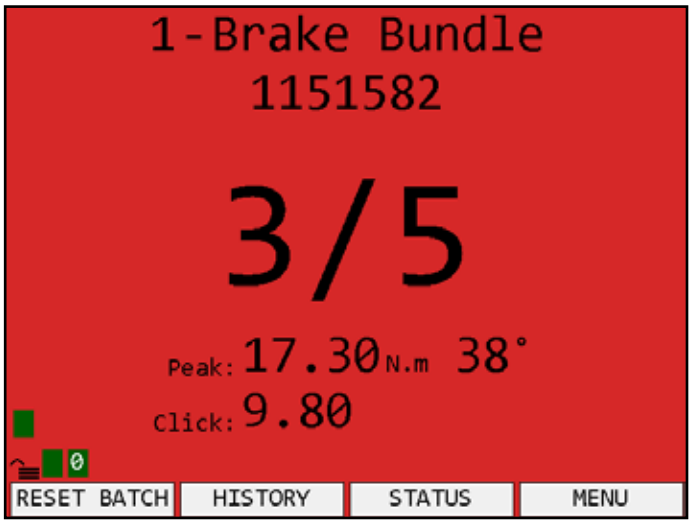
The TAC wrench tracks the Click and the Peak Torque settings. So it tracks and reports the point at which the wrench clicked. It also tracks and reports the final applied torque result with Peak Torque. In addition the wrench reports the degrees of angle rotation for the fastener.

The Click, the Peak Torque and the degrees of rotation are all displayed on the Global 400/400mp screen and in the reporting. Now a supervisor has actionable data that can be used to train the operator. There is now a trackable basis for error proofing by guidance (using light, sound, and tactile stimulation) as well as historical data to change behavior, which is error proofing by behavior modification.

For more information on how this tool can help your assembly process, contact your Sturtevant Richmont sales professional.



In this application the operator stopped pulling when the wrench clicked. The fastener was not over-torqued, and this correct torque operation is displayed and tracked here.



With this fastener the operator continued to pull long after the wrench clicked.

The G400 would consider this to be a reject. Now supervisors have concrete evidence to help improve performance and shape behavior