

FM Digital Torque & Angle Wrench – TAC



Pulsing blue LED timing can be adjusted in the controller to help operators identify the active tool if there are multiple TAC wrenches in a work cell. ('Pick to Light').



Img.: TAC-300i

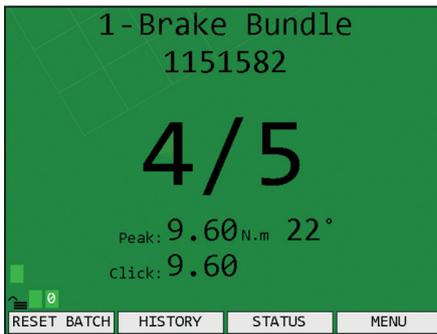
Digital Clicker Wrench with Angle Monitoring

The TAC (digital torque / angle control) is really two wrenches in one. First, and foremost, it is a traditional mechanical click-wrench. When the preset torque value is achieved, the internal mechanism moves, striking the side of the flattened case. That creates a distinctive sound. The operator stops pulling when the wrench clicked, the LED flashes green, and the display on the Global 400 advances the batch count and flashes green.

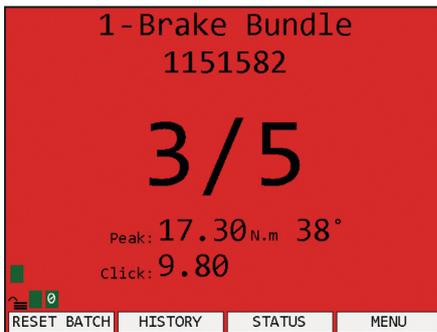
Although the wrench reports like a digital wrench, it is calibrated and set like a traditional preset click wrench. It does not change torque output based on a digital input. The torque value is changed by compressing or relieving the spring, just like a preset click wrench. After all, it is a click-wrench.

When the parameter with which the tool is paired becomes active, the second LED flashes blue. When the batch is complete, the second LED turns solid blue, indicating that the batch is complete.

Note that there are two torque values shown on the Global 400 display. There is the "click" torque value, the point at which the wrench clicked. There is also the peak value. This is the point at which the operator stopped pulling. The display to the right also shows that the appropriate torque value was achieved 22 degrees of rotation after snug torque was achieved.



But what if the operator continued to pull? Example: In this case, the wrench clicked at 9.8 Newton Meters. But the operator continued to pull until the final torque was 17.3 Newton Meters. Both the TAC and the controller display flashed red, indicating **NOK**.



The operator can now self-diagnose and determine exactly what he or she did to illicit the NOK. This is both error-proofing by guidance and error-proofing by behavior modification.

- ▶ 2-way radio communication over 15 metres line of sight (XBee – no ZigBee).
- ▶ 3 torque modes: CLICK, PEAK and TAM (Torque and Angle Monitoring). Modes are set in the controller and can be changed on a parameter-by-parameter basis.
- ▶ 2 LEDs: traditional Green/Red for OK/ NOK. The Blue LED pulses when the tool becomes active and is ready for use.
- ▶ Shipped with two 1.2V NiMH rechargeable batteries. Charger is sold separately.
- ▶ **No charging station required**, a battery change is done in minutes.
- ▶ Accuracy of ± 4% of the indicated value between 20% and 100% of the rated torque capacity.
- ▶ Meets or exceeds **ASME B107.300-2010** and **DIN EN ISO 6789**; type II, class c.
- ▶ Fully compatible with Global 400, Global 400mp, and TCV e2 torque controllers.
- ▶ Comes with ISO 17025 Calibration Certificate if SR sets the torque value at the factory.

The TAC is powered by a single AAA, NiMH rechargeable battery. Extensive testing shows that the rechargeable NiMH batteries from Powerex, provide the longest battery life between changes. They are also the most environmentally friendly battery choice. NiMH batteries provide the most consistent power curve.

INFO

TAC

Model	Item No.	Torque Range			Lever mm	OvL mm	Weight kg	Tool/head connector
		N-m	lbf-ft	lbf-in				
TAC 150i	R810712	4 - 17	2,5 - 12,5	30 - 150	146	180	0,4	Dovetail
TAC 300i	R810713	7 - 34	5,0 - 25	60 - 300	187	229	0,5	Dovetail
TAC 750i	R810714	17 - 85	12,5 - 62,5	150 - 750	267	326	0,6	Dovetail
TAC 1800i	R810715	41 - 203	30 - 150	360 - 1800	369	411	0,8	Dovetail
TAC 1800i ERGO	R810721	41 - 203	30 - 150	360 - 1800	457	522	1,0	Dovetail



Further info on our website. 24/7

* It is recommended to use in middle performance range (approx. 1/4 to 3/4 of rated capacity). If you regularly worked close to the limit of load (maximum capacity), a larger model might be more recommendable.