

# Wireless Preset Torque Wrench – SLTC-FM 2.4



## Monitoring the Click Process by Radio

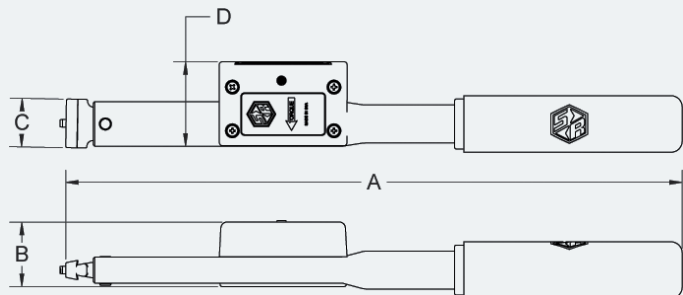
The **SLTC-FM** torque wrench, which is preset to a target torque value, sends the click signal via radio (**XBee Pro - no WLAN, no ZigBee**) to the paired controller/receiver after each triggering. Radio range up to 50 feet radius industrial environment. The small data packet is sent up to five times, each transmission takes just 30 milliseconds (0.03 s). Reception is confirmed via **two-way communication**.

When paired, the SLTC-FM radio key and controller/receiver are individually 'paired'. The unique coding of the radio technology reliably prevents interference from radio tools used in parallel.

The installed **XBee** radio modules work in the **IEEE 802.15.4** standard. A significant difference to the IEEE 802.11b/g (WLAN) standard is that the XBee channels used by the Sturtevant radio key have a considerably smaller 'footprint' and emit significantly less energy onto neighbouring channels!

When a torque wrench is operated on a fastener, the wrench spends a certain amount of time in the "clicked" position; thus a small time slot occurs between releasing and easing the wrench. The paired controller monitors the correct operation of the SLTC-FM click wrench by parameterising various time slots: a) reaching the click point too quickly, b) overtightening, c) between load changes. This reliably detects if screws are forgotten, overtightened or improperly tightened. The effect: reduced error rate, improved productivity.

- ▶ No charging station required, i.e. travelling and working time are saved.
- ▶ Radio circuit board with standard 1200 mAh AAA battery achieves an impressive 50,000 to 70,000 signal transmissions!
- ▶ Low battery alarm can be set in the controller.
- ▶ Maximum communication security through coding.
- ▶ Output power/effective power:  
FM wrench = 1 mW; Controller = 10-60 mW.
- ▶ **Preset torque setting.**
- ▶ Accuracy ± 4%, conforms to **EN ISO 6789**; type II, class C.
- ▶ Meets or exceeds **ASME B107.300-2010, GGG-W-686E**.
- ▶ Fully compatible with Global 400/400mp, TCV-FM, TCVe2.
- ▶ Ergonomically optimised handle.



## SLTC-FM 2.4 (AAA)

Model	Item No.	Torque Range		Tool insert	Dimensions (mm)				Weight kg	Grip
		~N·m	lbf·in		A	B	C	D		
SLTC-24FM 50i	R810411	<b>1.2 - 5.6</b>	10 - 50	Dovetail	176	38.5	23.8	44.1	0.32	soft
SLTC-24FM 150i	R810412	<b>4 - 17</b>	30 - 150	Dovetail	176	33.7	23.8	44.1	0.32	soft
SLTC-24FM OHT	R810410	<b>17 - 34</b>	150 - 300	Dovetail	181	33.7	23.8	44.1	0.35	soft
SLTC-24FM 300i	R810413	<b>7 - 34</b>	60 - 300	Dovetail	227	33.7	23.8	44.1	0.44	soft
SLTC-24FM 750i	R810414	<b>17 - 85</b>	150 - 750	Dovetail	324	33.7	25.4	44.1	0.59	soft
SLTC-24FM 1800i	R810415	<b>41 - 203</b>	360 - 1800	Dovetail	411	33.7	31.8	44.1	0.76	soft
SLTC-24FM 1800i ERGO	R810421	<b>41 - 203</b>	360 - 1800	Dovetail	522	33.7	31.8	44.1	0.99	soft
SLTC-24FM 3000i	R810420	<b>68 - 339</b>	600 - 3000	Dovetail	529	45.6	38.1	44.8	1.29	soft
SLTC-24FM 3600i	R810417	<b>81 - 406</b>	720 - 3600	Dovetail	618	69.9	57.9	57.9	2.88	MH
SLTC-24FM 4800i	R810418	<b>108 - 542</b>	960 - 4800	Dovetail	872	57.9	50.8	68.3	3.45	MH
SLTCR-24FM 750i	R810423	<b>17 - 85</b>	150 - 750	Ratchet 3/8"	365	33.7	34.9	44.1	0.6	soft
SLTCR-24FM 1800i	R810424	<b>41 - 203</b>	360 - 1800	Ratchet 1/2"	466	33.7	49.6	44.1	0.8	soft
SLTCR-24FM 1800i ERGO	R810425	<b>41 - 203</b>	360 - 1800	Ratchet 1/2"	577	33.7	49.6	44.1	0.9	soft
SLTCR-24FM 3000i	R810416	<b>68 - 339</b>	600 - 3000	Ratchet 1/2"	575	63.5	49.6	55.2	2.2	soft
SLTCR-24FM 7200i	R810419	<b>163 - 813</b>	1440 - 7200	Ratchet 3/4"	949	68.3	68.3	57.9	4.5	MH

**BATTERY NOTE:** The above-mentioned SLTC-24FM (AAA) radio clicker wrench can be operated with either a 1.5V alkaline or a 1.2V NiMH micro cell (IEC HR03). The predecessor models (item no. R8103..) had a 6V radio module with a lithium photo battery (2CR11108).

