

Torque Control **TC1**

Mobile Measurement Unit



The Mobile Measurement Unit **TC1**

Clever Measurement for Plarad Nutrunners



Mobile technology

An innovation in the mobile measurement technology is the measurement unit *TC1*. It measures the applied torque and the subsequent wrenching process directly on site. The system works without cables during the screw-fitting process and can easily be mounted to the torquing device. The applied torque is visible directly on the sensor display. An additional target value can be defined. If the given tolerance is exceeded, the device will initiate an audible alarm. The operator will receive visual information regarding the applied torque pressure result on a display with LED traffic light colors. This feature is particularly useful when working in a loud environment.

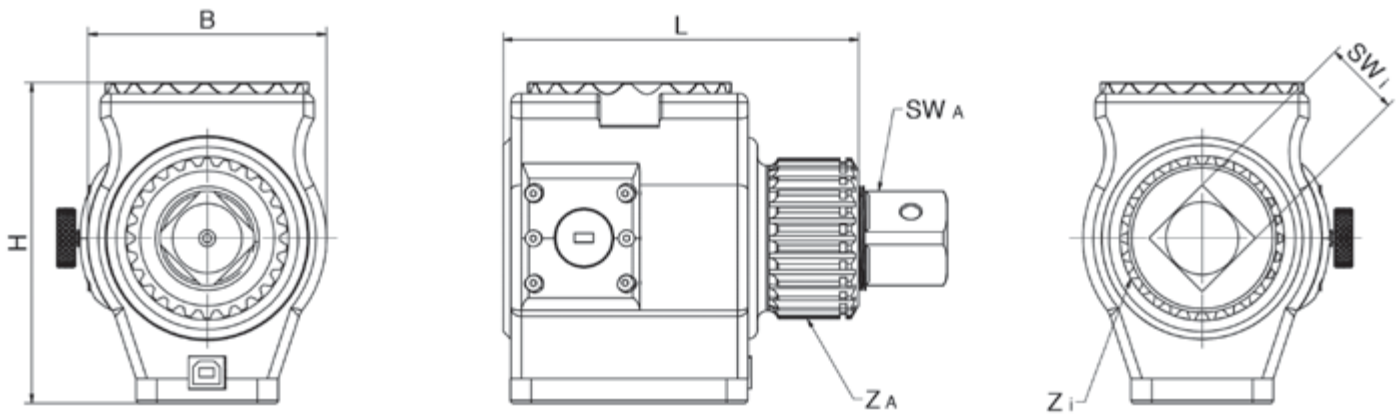
Storage of up to 250 bolting values

The measured data can be stored in the device's integrated memory and can be transferred to a PC for further analysis. Wireless operation with storage expansion is also possible on request.

Maintenance-free and compatible

The *Torque Control* is available in four different construction sizes and covers a measurement range of 110 to 5 500 Nm. The devices are compatible with the current Plarad nutrunner program and are virtually maintenance-free. The calibration cycle is determined by the utilisation percentage and the frequency of use.

Technical Data



Type		TC1 - 11	TC1 - 31	TC1 - 41	TC1 - 55
	Unit	min. - max.	min. - max.	min. - max.	min. - max.
Measurement range	Nm	110 - 1 100	310 - 3 100	410 - 4 100	550 - 5 500
Measurement range	ft-lbs	81 - 811	229 - 2 286	302 - 3 024	406 - 4 056

Dimensions					
Weight	kg	2.60	4.80	2.70	5.00
Za (external teeth)	N	26	45	26	45
Zi (internal teeth)	N	26	45	26	45
SWa (outer square)	in	3/4"	1"	1"	1 1/2"
SWi (inner square)	in	3/4"	1"	1"	1 1/2"
H	mm	108	133	108	133
W	mm	81	101	81	101
L	mm	120	150	120	150

For all Types

Battery	NiMH8	Use/storage temperature	0 to +50°C
Charging voltage	5-9V DC	Accuracy	Accuracy class 2 (2%)
Charging current	max. 1A	Battery operation	abt. 24h
Data and charging connector	USB 2.0 Type B	Charge time	abt. 1h
Protection class	IP 20	Storage capacity (bolting values)	250
Input Output	100V -240V 50/60 Hz +5V DC 1A	Adapter	CEE 7/16 Euro plug (Type C)

Torque Control Accessory

Stable transportation and storage boxes are included in the scope of delivery, as well as the *TC1 Data Transfer Software*. An USB power supply and data cable are also included in order to charge the *Torque Control* battery and to transfer data directly to the PC.

The Torque Control Software:

- Documentation of all data: bolting, date, time, OK-/NO OK-result
- Storage of all bolting data
- Evaluation/statistics/archive
- Optimized documentation and process security
- Quality assurance guarantee



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