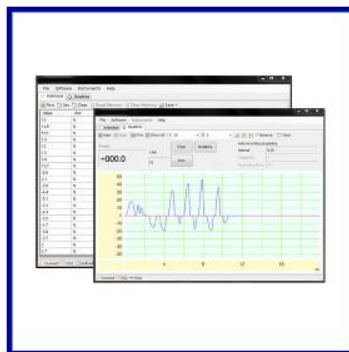




ZDP series is the torque measuring instrument which have various function for measuring very diverse torque, besides it is small and lightweight.

1. Torque measurement of the extrusion and return screws or bolts;
2. Non-destructive testing and strength inspection of a screw or bolt;
3. Torque measurement rotary switch;
4. Rotational resistance of the motor shaft.

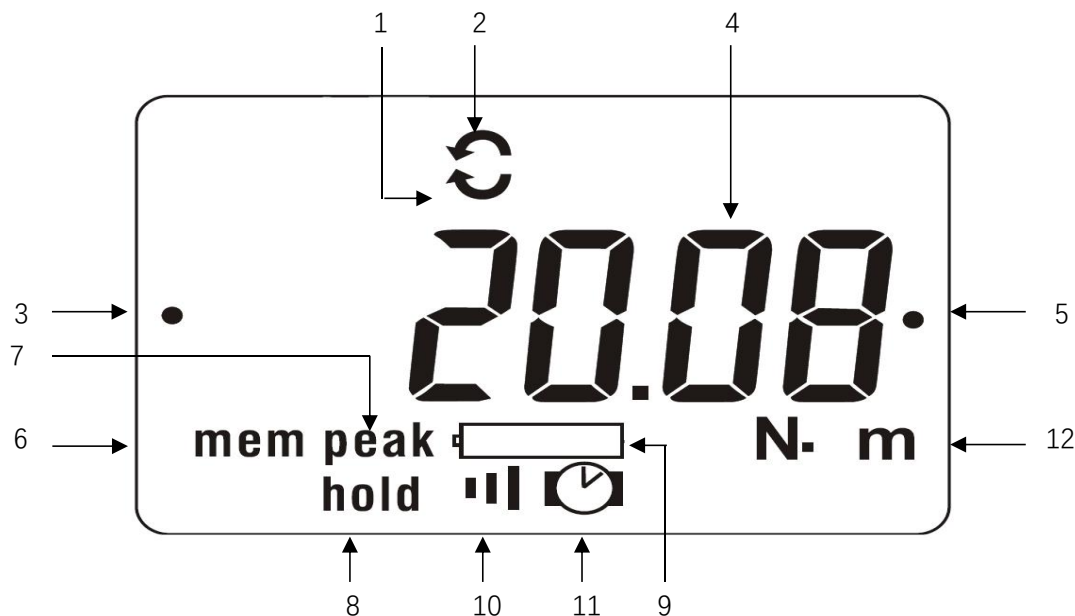
Gallery



Features

- Ergonomic design. Rugged metal housing construction for reliable and durable products.
- The LCD screen can be flipped to display measurement data and units.
- Instant tracking test and two peak modes are available.
- Measurement units Kgf.cm N.m/N.cm or lbf-in are available for selection.
- Programmable high/low value color LED indicators and output signals to indicate pass/fail testing.
- the instrument can store 1000 data.
- can be connected to the computer with RS232C or USB interface. It can process 1000 books per second and can generate analysis charts based on statistics.
- range overload and battery low voltage indication.
- The LCD screen can display the positive and negative signs, which visually show the loosening and tightening of the screws.

Display indicators



1. CW(clockwise) sign:

Express the torque of the CW(clockwise) direction.

2. CCW(counter clockwise) sign:

Express the torque of the CCW(counter clockwise) direction.

3. Auto zero clear mode sign/:

AC mode is valid when it blinks.

4. Measurement value:

Maximum capacity and current damping condition is displayed after power on.

A measurement value will be displayed if torque is added to tip of sensor unit.

5. +/-sign change mode sign:

SC mode is valid when it is lit.

6.Auto acquisition mode sign:

AA mode is valid when it is lit.

7.Peak mode sign:

PEAK mode is valid when it is lit.

8.Data hold sign:

It is displayed during data transmission by pressing SEND key.

9.Low battery warning sign:

When battery's voltage is low, this warning sign blinks. You need recharge the battery.

10.Alarm mode sign:

AL mode is valid when it is lit.

11.Auto power off mode sign:

AO mode is valid when it is lit.

12.Measuring unit:

Display the present measurement unit.

Names and functions of parts

Comparator discrimination LED

The LED is lit according to hi and low set point value. Overload warning LED It will blink, if the maximum torque is exceeded about 110%

ON/OFF

Turn ON/OFF the power.

SEND

While pressing, a display value is frozen and it is output to a printer and PC.

Display part

Measured value, a unit, the mode, and the warning of battery is displayed.

PEAK

Toggle between "Peak mode" and "Track mode"

ZERO

Display value is reset to zero.



Output connector

By connecting various option cables, data can be transmitted to PC

Connection chuck



Sensor unit

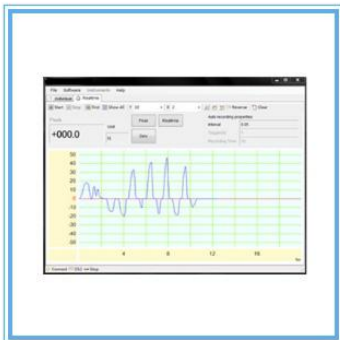
Specifications

Model	ZDP
Capacity	page 3
Accuracy	+/-0.2% full scale +/-1digit
Measuring units	Kgf.cm N.m/N.cm or lbf-in
Display	4 digit LCD-Unit-Mode-Overload LED-Comparator LED (reversible)
Sampling rate	1000 times/sec
Display update	10 times/sec
Overload capacity	200% of full scale (LED flashing and buzzing beyond 110%)
A/D converter	24 bit delta sigma
Micro processor	8 bit 1 tip micro processor
Battery use	Approx. 8 hours (10 hours for charging)
Use temperature	0~+40 degree Celsius
Use humidity	20~80%RH(relative humidity)
Power	Internal NiMH rechargeable battery, AC adapter
Peak mode	AND (CW and CCW) or OR (CW or CCW) selectable
Comparator function	Programmable high / low set point with color code indicators
Memory	Maximum 1000daa
Display turn function	measured value and unit
Alarm function	Overload and + NG (on / off selectable)
Auto power off	5, 10, 30, 60 min or OFF selectable
External cut-off function	display maintain, zero clearing and select peak mode and track mode
Dimension	length 220.5× width 78× height 32.3 mm
weight	Approx 520g

Optional Equipment

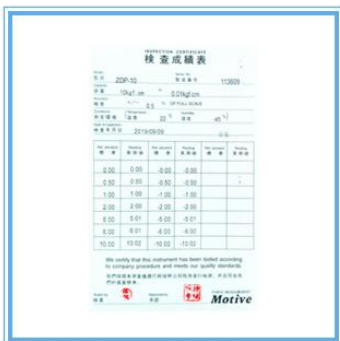


A wide range of test stands and gripping fixtures



Software

Tabulates and plots Also calculates statistics, exports to Excel, and more.



Certificate of calibration with data

Ordering Information

TYPE	MAX.LOAD			MIN.LOAD		
	Kgf.cm	N.m	Lbf.in	Kgf.cm	N.m	Lbf.in
ZDP-5	5.000	0.500	4.340	0.001	0.001	0.001
ZDP-10	10.00	1.000	8.680	0.01	0.001	0.001
ZDP-20	20.00	2.000	17.36	0.01	0.001	0.01
ZDP-50	50.00	5.000	43.40	0.01	0.001	0.01
ZDP-100	100.0	10.00	86.80	0.1	0.01	0.01

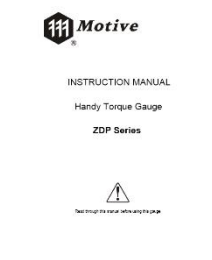
In the box



ZDP digital torque meters are shipped as shown at left, and include the following accessories:

- (1) + Bit #0
- (1) + Bit #1
- (1) + Bit #2
- (1) Instrument cable
- (1) Carrying case
- (1) AC adapter
- (1) Software CD data line (Purchase)

Instruction



Certificate



Included Accessories

Model

Attachments	ZDP-5 ZDP-10 ZDP-20 ZDP-50 ZDP-100
	Hexagon screwdriver head
ZDP-5 ZDP-10 ZDP-20 ZDP-50 ZDP-100	
	Hexagon screwdriver head
ZDP-5 ZDP-10 ZDP-20 ZDP-50 ZDP-100	
	Hexagon screwdriver head
ZDP-5 ZDP-10 ZDP-20 ZDP-50 ZDP-100	

Additional Items to Consider

Consumable parts		
	Gauge software	ZDP
	AC	Spare AC adapter, 100V-240V 50/60HZ
	Load cell	10Kgf.cm 50kgf.cm 100Kgf.cm
	Battery	4 sections, 1 group

Dimensions(mm)