

Digital Torque Gauge HTGS/HTGA series

Handheld torque measurement instrument for wide applications
Changeable attachments expand application possibility
High usability with bright display and various functions



Left: HTGA

Below: Accessories software ZT-Logger



Torque measurement of rotary switch

Precise measurement	High usability	Easy data management
<ul style="list-style-type: none"> - Fast sampling rate 2000 Hz capture torque transition - Small influence of bending and slant force by double bearing structure 	<ul style="list-style-type: none"> - High bright organic EL display - Multi language set up menu of English, Spanish, French, Chinese, German, Italian, Korean, Japanese 	<ul style="list-style-type: none"> - Easy connection with PC by USB - Data download software is included - Optional software which is making a graph is available.

Replaceable attachment

Easy operation of changing attachments.



Prepare an attachment



Insert an attachment



Turn screw by attached L wrench

You can change the attachment according to a sample.

We offer custom made attachment for unique application.

* Attachments are not included HTGS/HTGA series.

[Specifications]

We have 2 models of torque gauges.

Model	HTGA	HTGS
Outline	Advanced model with various functions such as data saving in USB memory stick, angle(displacement) I/O and more.	Standard model
Accuracy	±0.5%F.S.±1digit	
Unit of measurement (*1)	N·m, N·cm, kgf·m, kgf·cm, lbf·in, ozf·in	
Display	4-digit Organic EL	
Display update	10 / sec	
Sampling rate	2000 data / sec at maximum (*2)	
Battery	8 hours (8 hours charge) (*3)	
Safe overload rating	Approx.200%F.S.	
Operating environment	Temperature: 0 to +40 degree Celsius, Humidity: 20 to 80%RH	
Function	Customized display (header and footer), Peak hold (clockwise and counter-clockwise), Internal 1000 points data memory, Comparator (judgment of OK or NG), Reversible display, Sign inversion, Zero clear timer, +NG alarm, Off timer (auto power off), Dumping, Time display	
	1st/2nd peak, Angle detection at torque peak value (*4), Angle zero reset at selected torque(*4)	-
Output	USB, RS232C, Mitutoyo digimatic (*5), 2 VDC analog output (D/A), Comparator 3 steps (-NG/OK/+NG), Overload alarm	
	Sub comparator 2 steps (output of large or small judgment), USB flash drive, Angle(displacement) (*4)	-
Overload warning	Approx.110%F.S. (Warning message and alarm)	
External connecting switch	SEND (a point of contact holding), Zero reset, Peak ON/OFF setting	
Weight	Display : approx.490g	
Dimensions	Please refer to dimensions.	
Accessory	AC adapter, Inspection certificate, CD driver (including simple software for data logging), , USB cable, Carrying case, L wrench, handles (10N·m range only)	
	USB flash drive adapter (*6)	-

*1 These are the specifications for International model. Please note that this unit is different from Japanese domestic model and international one.

*2 The recording rate to USB flash drive is maximum 100Hz.

*3 The battery is more consumed when connected to USB flash drive or a displacement scale.

*4 Angle(displacement) scale is necessary to valid this function.

*5 Not always available for Mitutoyo digimatic products.

*6 USB flash drive is not included.

[HTG series models]

Model		Range	Display	Resolution
HTGA-2N	HTGS-2N	2 N·m (200N·cm)	2.000N·m (200.0N·cm)	0.001N·m (0.1N·cm)
HTGA-5N	HTGS-5N	5 N·m (500N·cm)	5.000N·m (500.0N·cm)	0.001N·m (0.1N·cm)
HTGA-10N	HTGS-10N	10N·m (1000N·cm)	10.00N·m (1000N·cm)	0.01N·m (1N·cm)

[Option attachment]

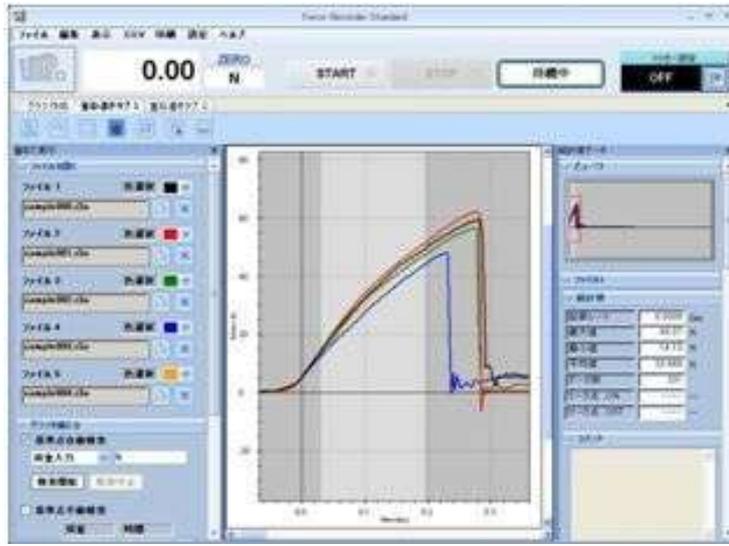
Expand the usage with various attachments

			
Pin chuck Suitable to fix shaft and rod type samples	Socket holder Suitable to fix torque wrench	Torque driver Suitable to measure tightening and losing torque	M10 adapter Adaptable for M10 female attachment
Large pin chuck Model : HT-DC-13 Opening width : ϕ 1.2~13mm Weight : approx. 600g *Cannot be used with 2N·m range	Socket holder Model : HT-9.5SQ Socket : 9.5mm square Weight : approx. 100g	Torque driver Model : HT-DBH Bit : + : No.1×50 + : No.2×50 - : No.3×50 Weight : approx. 100g	M10 adapter Model : HT-AD-M10 Screw : M10×L20 Weight : approx. 50g
Standard pin chuck Model : HT-DC-6.5 Opening width : ϕ 0.5~6.5mm Weight : approx. 200g			
Small pin chuck Model : HT-DC-4 Opening width : ϕ 0.5~4mm Weight : approx. 100g			

[Accessories]

<p>Data logger Simple software ZT-Logger</p>	<p>Main Functions</p> <ul style="list-style-type: none"> - Captures peak data - Captures continuous data (10 data /sec) - The recall of memory data - Saves data in CSV format 	
	<p>Working Environment</p> <ul style="list-style-type: none"> * Available data: Torque, Angle, Time - OS: Windows XP/Vista/7/8(32bit/64bit) - CPU: more than 1GHz - Memory: more than 1GB - Hard disk : more than 2GB - .NET Framework4 later <p>* Please note that the software may not work in all environmental combinations.</p>	
<p>Graphing software Trial version</p> <p>Force Recorder Professional Trial Edition</p> <p>Trial limit is 30days after installation.</p>	<p>Main Functions</p> <ul style="list-style-type: none"> - Making a graph with 2000Hz sampling speed - Function to input memo to record information <p>* Some functions are limited with trial edition. Please refer specification of Force Recorder for the detail of functions.</p>	
	<p>Working Environment</p> <ul style="list-style-type: none"> - OS: Windows XP/Vista/7/8(32bit/64bit) - CPU: more than 1GHz - Memory: more than 1GB - Hard disk : more than 2GB - .NET Framework4 later <p>* Please note that the software may not work in all environmental combinations.</p>	

Graphing Software: Force Recorder



Main functions

- You can make graphs of force-displacement at real time via USB connection at 2000Hz.
 - 5 graphs at maximum can be overlaid. (Standard, Professional edition)
 - You can write memo on each graph. You may write down testing conditions such as testing speed.
- * 3 editions are available as Light, Standard, and Professional.
 * Please refer to each specification for further information.

Printer : DP-1VR



Option cable

- Analog(3m) : CB-108
- RS232C Cable (3m) : CB-208
- Digimatic cable(3m) : CB-308
- Contact point cable (3m) : CB-808
- Open end cable (3m) : CB-908

Replacement battery : BP-308



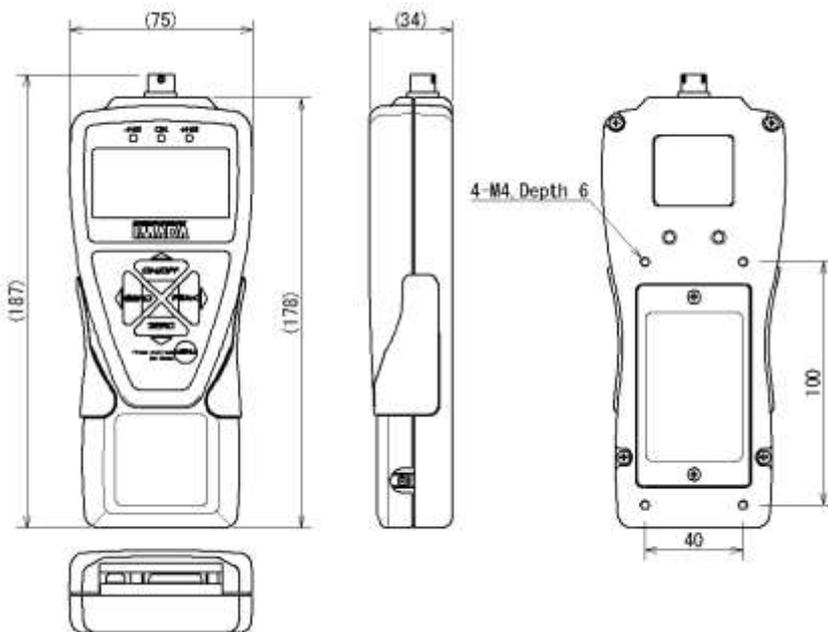
Prints indicated values and data in internal memory. *CB-308 cable is necessary.

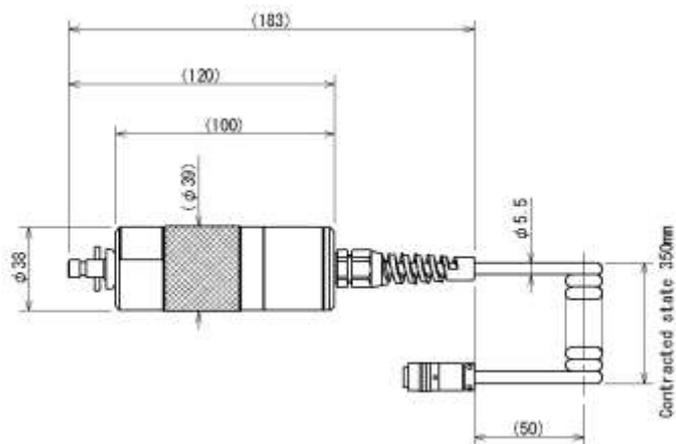
Various cables are available.

Battery for replacement.

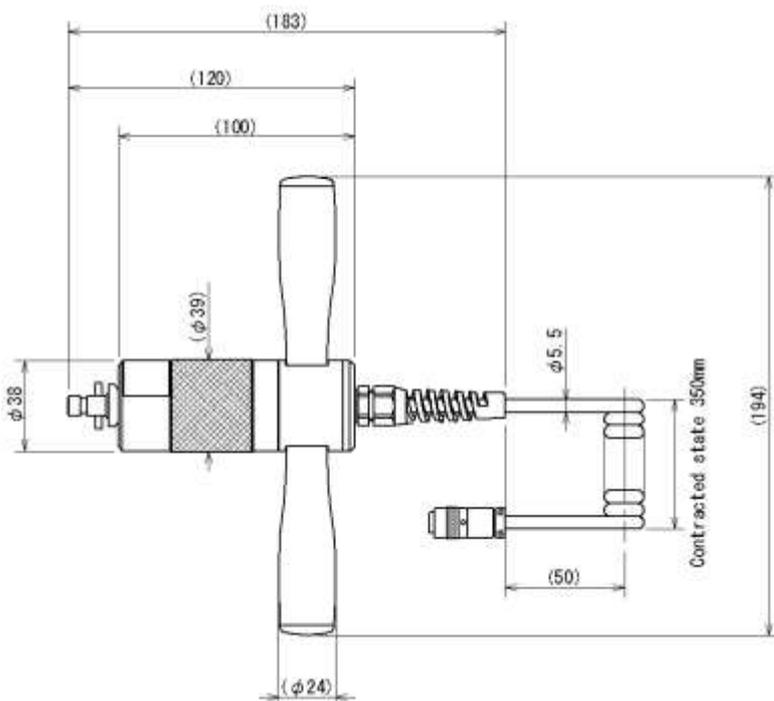
Dimensions (Unit:mm)

Display





Sensor : 10N



[Calibration Certificate]

- We offer calibration certificate with extra charge.
- * Please contact us or our distributor in your country for further information.

[Cautions]

- The contents may be changed without previous notice.
- All of products are designed for measurement purpose only.
- Do not copy and use this content without authority.
- Please note if you add load over capacity, its sensor would be broken down.