

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

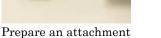


Precise measurement	High usability	Easy data management
- Fast sampling rate 2000 Hz	- High bright organic EL display	- Easy connection with PC by USB
capture torque transition	- Multi language set up menu of	- Data download software is
- Small influence of bending and	English, Spanish, French,	included
slant force by double bearing	Chinese, German, Italian,	- Optional software which is
structure.	Korean and Japanese.	making a graph is available.

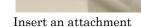
Replaceable attachment

Easy operation of changing attachments.















Turn screw by attached L wrench

You can change the attachment according to a sample.

We offer custom made attachment for unique application.

1/7

2015/06/15

^{*} 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	$\pm 0.5\% \mathrm{F.S}$.±1digit	
Unit of measurement (*1)	N-m, N-cm, kgf-m, kgf-cm, lbf-in, ozf-in (N-cm, kgf-cm, lbf-in and ozf-in are available for 0.5N-m.)		
Display	4-digit Organic EL		
Display update	16 / s	sec	
Sampling rate	2000 data / sec at maximum (*2)		
Battery	Nickel-hydrogen battery / Operating time:8 hours (2 hours full 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, setting lock 1st/2nd peak, Angle detection at torque peak value (*4), Angle zero reset at selected torque(*4)		
Output	USB, RS232C, Mitutoyo digimatic Comparator 3 steps (-NG/C 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), Force Recorder Professional (Graphing software for demo), USB cable, Carrying case, L wrench, handles (10N-m range only)		
	USB flash drive adapter(*6)	-	
*1 Those are the specification	ons for International model Please note that this u	nit is different from Innances demostic model and	

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

[HTG series models]

Mo	odel	Range	Display	Resolution
HTGA-0.5N	HTGS-0.5N	50N-cm	50.00N-cm	0.01N-cm
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)

^{*2} The recording rate to USB flash drive is selectable among 1, 50 and 100/sec.

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

^{*4} Angle (displacement) scale is necessary to activate this function.

^{*5} Not always available for Mitutoyo digimatic products.

^{*6} USB flash drive is not included.



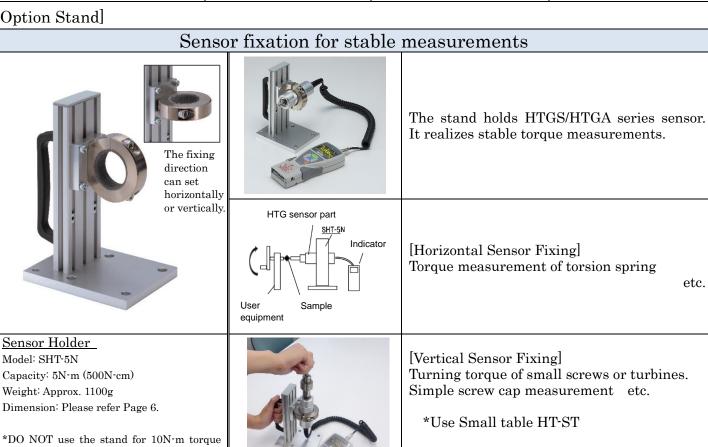


IMADA CO.,LTD.. Handy Model Digital Torque Gauge HTGS/HTGA series

[Option attachment]

Expand the usage with various attachments Pin chuck Socket holder Torque driver M10 adapter Suitable to fix shaft and rod type Suitable to fix torque Suitable Adaptable for M10 female measure samples wrench tightening and loosing torque attachment Large pin chuck Socket holder Torque driver M10 adapter Model: HT-DBH Model : HT-AD-M10Model: HT-DC-13 Model: HT-9.5SQ Opening width : φ1.2~13mm Socket: 9.5mm square Screw: M10×L20 Bit: Weight: approx. 600g Weight: approx. 100g +: No.1×50 Weight: approx. 50g *Cannot be used for 2N-m or 0.5N-+: No.2×50 m range -: No.3×50 Standard pin chuck Weight: approx. 100g Model: HT-DC-6.5 Opening width : φ0.5~6.5mm Weight: approx. 200g *Cannot be used for 0.5N-m range Small pin chuck Model: HT-DC-4 Opening width : φ0.5~4mm Weight: approx. 100g

[Option Stand]



*It is possible to screw on equipment.



[Accessories]

	Main Functions	 Captures peak data Captures continuous data (10 data /sec) The recall of memory data Saves data in CSV format Prints out reports * Available data: Torque, Angle, Time 	Force Gauge ZT series Driver CD-ROM (21-22-2 2 20-2 20-2 20-2 20-2 20-2 20-2
Data logger Simple software ZT-Logger	Working Environment	- OS: Windows XP/Vista(32bit) 7/8/8.1(32bit/ 64bit) - CPU: more than 1GHz - Memory: more than 1GB - Hard disk: more than 2GBNET Framework4 later	TANADA TANADA TANADA
		* Please note that the software may not work in all environmental combinations.	
Graphing software Trial version Force Recorder	Main Functions	 Making a graph with 2000Hz sampling speed Function to input memo to record information * Some functions are limited with trial edition. Please refer specification of Force Recorder for the detail of functions. OS: Windows XP/Vista(32bit) 	Force Recorder Trial Edition 12 to the Prince Resolution William Committee C
Professional Trial Edition Trial limit is 30days	Working Environment	7/8/8.1(32bit/ 64bit) - CPU: more than 1GHz - Memory: more than 1GB - Hard disk: more than 2GB NET Framework4 later * Please note that the software may not work in all environmental combinations.	The control of the co

[Related products]

Graphing Software: Force Recorder 0.00 /1205 #04071 ESECT refa-1

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	Replacement battery: BP-308
	Analog(3m): CB-108	
	RS232C Cable (3m) : CB-208	16 Sec. 16
	Digimatic cable(3m) : CB-308	
	Contact point cable (3m) : CB-808	
	Open end cable (3m):CB-908	
Prints indicated values and data in	Various cables are available.	Battery for replacement.
internal memory. *CB-308 cable is		
necessary.		





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Handy Model Digital Torque Gauge HTGS/HTGA series

eZ-Connect series Sensor-interchangeable Amplifier eZT



For measuring both torque and compression/tension force...

eZT is an amplifier which enables to connect to various eZ-Connect load cells of your choice.

*The amplifier and the load cell are not calibrated (actual loading calibration) together therefore the inspection certificate is not included. Please calibrate them or ask us for calibration service.

*The accuracy of load cell is dependent on the model. Please refer to each specification sheet for details.

Handy Torque-Angle Measurement Unit (Custom-made)

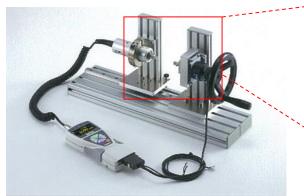




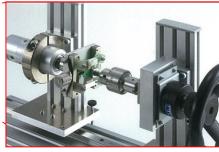
For feeling test of rotary switches on car dashboard

- Easily analyze torqueangle measurement
- Enables stable measurement with the height adjustable stay.

Torque-Angle measurement Unit with Manual test stand (Custom-made)



NEURTEK



Torque-Angle Measurement of a small switch

- The sensor and the jig for chuck can be fixed on the stand.
- The handle enables stable measurement and analysis of torqueangle and improves repeatability.

5 / 7 2015/06/15

^{*}We offer custom-made products based on your needs. Please contact us for your measurement solutions.



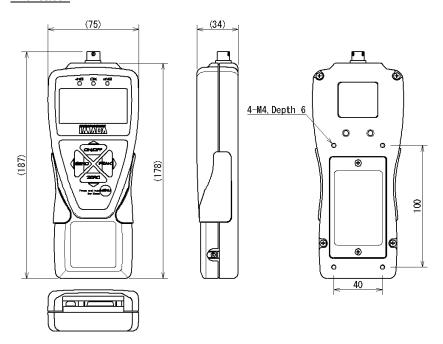


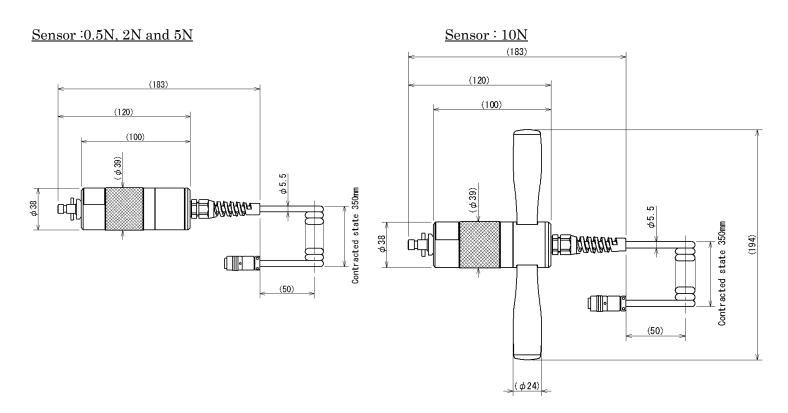
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[Dimensions]

Indicator





6 / 7 2015/06/15

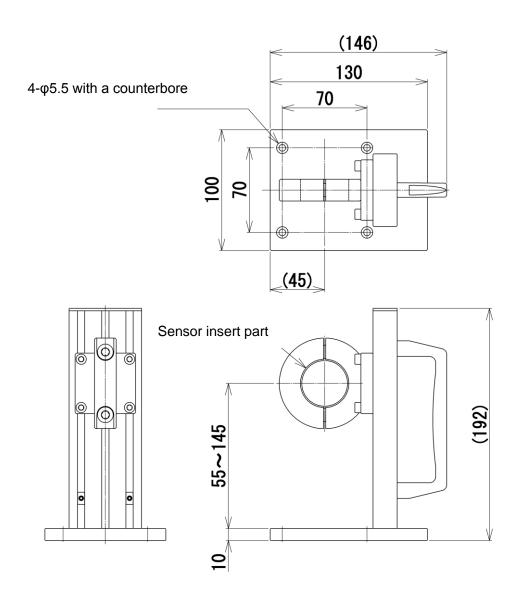




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SHT-5N



[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.
- Please note that the capacity is dependent on the displayed unit. Please contact us for details.

7 / 7 2015/06/15