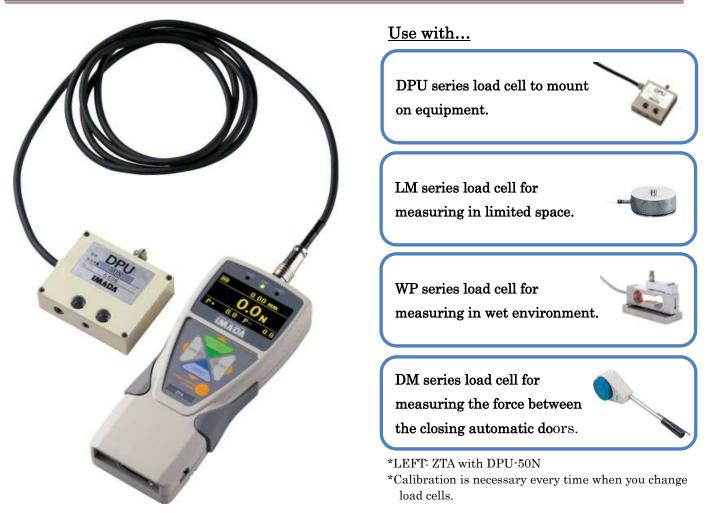
High functioning/High performance Digital Force Gauge ZT Series Sensor Separate Model

Sensor separate model of high performance digital force gauge ZT series Wide range of load cell to fit various measuring environment Various data output for external equipment controlling



[Features]

Fast Sampling & Accurate Results	Direct data storing to USB	Clear Display
Fast sampling speed of max. 2000 data/sec and fast USB connection provides smooth graph drawing. (Optional software required)	Saving continuous data directly in USB memory stick (ZTA series only)	Bright Organic EL display shows multiple values (date and time, the number of memory, comparator value and more.)
		機能設定メニュー 日時設定 ビーク値 ブザー設定 ■ 15:00:00
		O.O _N P1 0.0 P2 0.0

FORCE MEASUREMENT

IMADA CO.,LTD. Digital force gauge ZT series separate model [ZT series Specifications]



You can select from 2 types (ZTA or ZTS) in accordance with your use.

Model	ZTA	ZTS		
Feature	Advanced model with various functions such as data saving in USB memory stick, displacement I/O and more.	Standard model with the same benefit in performance as ZTA series but reduced functions.		
Accuracy	+/-0.2%F.S	.+/-1digit		
Unit of measurement(*1)	N, kgf, l	bf (*2)		
Display	4-digit Org	ganic EL		
Display update	10 / 5	sec		
Sampling rate	2000 / sec at m	aximum (*3)		
Battery	8 hours (8 ho	urs charge)		
Safe overload rating	Approx.20	00%F.S.		
Operating environment	Temperature: 0 to +40 degree Celsius Humidity: 20 to 80%RH			
Function	Customized display (header and footer), Peak hold (tension and compression), Interr 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, Calendar display 1 ^{st/2nd} peak, Displacement detection at force peak, Displacement 0 reset at selected force			
Output	USB, RS232C, Mitutoyo digimatic (*4), 2 VDC analog output (D/A), Comparator 3 steps (-NG/OK/+NG) Sub comparator 2 steps (output of large or small judgment)			
Overload warning	Approx.110%F.S. (Warni	ng message and alarm)		
External connecting switch	SEND (a point of contact holding),			
Weight	From 2N to 1000N mo 2500N, 5000N: Ap			
Dimensions	Please refer to	dimensions.		
Accessory(*6)	AC adapter, Inspection certificate, CD driver (including simple software for data log), Attachments (The set of attachments varies according to range.), USB cable, Carrying case.			
	Adapter for USB memory stick	-		
		•		

*1 This is the specifications for international model. Please note that available unit is different from Japanese domestic model and international one.

*2 [N indication] The indication of 2N and 5N models is mN or N. The indication of 1000N,2500N and 5000N model is N or kN. [kgf indication] The indication of 2N and 5N models is gf. [lbf indication] The indication of 2N and 5N models is ozf.

 $\ast 3$ When you save data in USB memory stick, the sampling rate is 100/sec.

*4 It is not always available for Mitutoyo digimatic products.

*5 Weight is slightly different according to range.

*6 USB memory stick is not included.

[Sensor Separate Models]

Select a display and a sensor;

Example of combination:

Display + Sensor (Load cell)	Model
ZTA series + DPU-50N	ZTA-DPU-50N
ZTS series + LM-2000N	ZTS-LM-2000N

Next page: Range list of some load cells >>>

IMADA CO.,LTD. Digital force gauge ZT series separate model



[DPU Models]

Model		Capacity	Display	Resolution
ZTA-DPU-2N	ZTS-DPU-2N	2N(200gf)	2.000N/2000mN(200.0gf)	0.001N/1mN(0.1gf)
ZTA-DPU-5N	ZTS-DPU-5N	5N(500gf)	5.000N/5000mN(500.0gf)	0.001N/1mN(0.1gf)
ZTA-DPU-10N	ZTS-DPU-10N	10N(1kgf)	10.00N(1.000kgf)	0.01N(0.001kgf)
ZTA-DPU-20N	ZTS-DPU-20N	20N(2kgf)	20.00N(2.000kgf)	0.01N(0.001kgf)
ZTA-DPU-50N	ZTS-DPU-50N	50N(5kgf)	50.00N(5.000kgf)	0.01N(0.001kgf)
ZTA-DPU-100N	ZTS-DPU-100N	100N(10kgf)	100.0N(10.00kgf)	0.1N(0.01kgf)
ZTA-DPU-200N	ZTS-DPU-200N	200N(20kgf)	200.0N(20.00kgf)	0.1N(0.01kgf)
ZTA-DPU-500N	ZTS-DPU-500N	500N(50kgf)	500.0N(50.00kgf)	0.1N(0.01kgf)
ZTA-DPU-1000N	ZTS-DPU-1000N	1000N(100kgf)	1000N/1.000kN(100.0kgf)	1N/0.001kN(0.1kgf)
ZTA-DPU-2000N	ZTS-DPU-2000N	2000N(200kgf)	2000N/2.000kN(200.0kgf)	1N/0.001kN(0.1kgf)
ZTA-DPU-5000N	ZTS-DPU-5000N	5000N(500kgf)	5000N/5.000kN(500.0kgf)	1N/0.001kN(0.1kgf)
ZTA-DPU-10kN	ZTS-DPU-10kN	10kN(1000kgf)	10.00kN(1000kgf)	0.01kN(1kgf)
ZTA-DPU-20kN	ZTS-DPU-20kN	20kN(2000kgf)	20.00kN(2000kgf)	0.01kN(1kgf)

[LMU Models]

Model		Capacity	Display	Resolution	
	ZTA-LMU-50N	ZTS-LMU-50N	50N(5kgf)	50.00N(5.000kgf)	0.01N(0.001kgf)
	ZTA-LMU-100N	ZTS-LMU-100N	100N(10kgf)	100.0N(10.00kgf)	0.1N(0.01kgf)
	ZTA-LMU-200N	ZTS-LMU-200N	200N(20kgf)	200.0N(20.00kgf)	0.1N(0.01kgf)
	ZTA-LMU-500N	ZTS-LMU-500N	500N(50kgf)	500.0N(50.00kgf)	0.1N(0.01kgf)

[LU Models]

Model		Capacity	Display	Resolution
ZTA-LU-50N	ZTS-LU-50N	50N(5kgf)	50.00N(5.000kgf)	0.01N(0.001kgf)
ZTA-LU-100N	ZTS-LU-100N	100N(10kgf)	100.0N(10.00kgf)	0.1N(0.01kgf)
ZTA-LU-200N	ZTS-LU-200N	200N(20kgf)	200.0N(20.00kgf)	0.1N(0.01kgf)
ZTA-LU-500N	ZTS-LU-500N	500N(50kgf)	500.0N(50.00kgf)	0.1N(0.01kgf)
ZTA-LU-1000N	ZTS-LU-1000N	1000N(100kgf)	1000N/1.000kN(100.0kgf)	1N/0.001kN(0.1kgf)
ZTA-LU-2000N	ZTS-LU-2000N	2000N(200kgf)	2000N/2.000kN(200.0kgf)	1N/0.001kN(0.1kgf)

[LM Models]

Mo	odel	Capacity	Display	Resolution
ZTA-LM-10N	ZTS-LM-10N	10N(1kgf)	10.00N(1.000kgf)	0.01N(0.001kgf)
ZTA-LM-20N	ZTS-LM-20N	20N(2kgf)	20.00N(2.000kgf)	0.01N(0.001kgf)
ZTA-LM-50N	ZTS-LM-50N	50N(5kgf)	50.00N(5.000kgf)	0.01N(0.001kgf)
ZTA-LM-100N	ZTS-LM-100N	100N(10kgf)	100.0N(10.00kgf)	0.1N(0.01kgf)
ZTA-LM-200N	ZTS-LM-200N	200N(20kgf)	200.0N(20.00kgf)	0.1N(0.01kgf)
ZTA-LM-500N	ZTS-LM-500N	500N(50kgf)	500.0N(50.00kgf)	0.1N(0.01kgf)
ZTA-LM-1000N	ZTS-LM-1000N	1000N(100kgf)	1000N/1.000kN(100.0kgf)	1N/0.001kN(0.1kgf)
ZTA-LM-2000N	ZTS-LM-2000N	2000N(200kgf)	2000N/2.000kN(200.0kgf)	1N/0.001kN(0.1kgf)
ZTA-LM-5000N	ZTS-LM-5000N	5000N(500kgf)	5000N/5.000kN(500.0kgf)	1N/0.001kN(0.1kgf)
ZTA-LM-10kN	ZTS-LM-10kN	10kN(1000kgf)	10.00kN(1000kgf)	0.01kN(1kgf)
ZTA-LM-20kN	ZTS-LM-20kN	20kN(2000kgf)	20.00kN(2000kgf)	0.01kN(1kgf)

*Please contact us for other combinations.

IMADA CO.,LTD. Digital force gauge ZT series separate model



[Load Cells]

Display	DPU series	LMU series	LU series
Feature	Standard - Wide Use	Small Size	Small Size - Wide Use
Force	Tension/Compression	Tension/Compression	Tension/Compression
Capacity	2N to 20kN	50N to 500N	50N to 2000N
Accuracy	+/- 0.2%F.S.	+/- 1%F.S.	+/- 1%F.S.
Cable Length	Up to 500N:2m 1000N to 20kN:3m	2m	3m
Dimensions	From Approx. W58xD21xH71 up to Approx. W88xD40xH155mm	Approx. φ18xH25mm	Approx. φ28xH35mm
Thread	Up to 500N:M6P1 (Male) 1000N to 5000N:M10P1.5 (Male) 10kN to 20kN:M18P1.5 (Length 22mm Female)	M5P0.8 (Male)	M8P1.25 (Length 8mm Female)
Attachments	100N and less:A1-A8 200N to 500N:S1-S8 1000N to 5000N:B1-B8 10kN and over: None	-	-
Image	in the second se		

Display	LM series	LC series	LMT series
Feature	Thin & Round	Round & Precise	Low/High Temperature Resistance (-40 to 130 degree Celsius)
Force	Compression	Compression	Compression
Capacity	10N to 20kN	500N to 20kN	1000N
Accuracy	+/- 1 to 2.5%F.S.	+/- 0.5%F.S.	+/- 5%F.S.
Cable Length	2m	3m	2m
Dimensions	Approx.φ12xH4 to φ21xH10mm	Approx.ø50xH25mm	Approx.q14xH4.3mm
Thread	-	-	-
Attachments	-	-	-
Image			

Model	WP series	PN series	DM series
Feature	Waterproof	Pen type	For Door
Image			

*For further details, please refer to the specification sheet of each load cell.



[Accessories]

	Main functions					
	- Captures peak data (*1)		100.000	F-10184 3	-38E A47	
	- Captures continuous data		Hald +00	77	+0000.00	
	(10 data /sec) (*1)				+0000.00	
	- The call of memory data (*1)		2010	N 用重/文位 207	2010 mm	
	- Saves data in CSV format		Broilar	HIR ALL IN	Marcar.	
			A thread	-	💩 isteration and	
	Operating environment		- 487£180.04	4873238	建成和012.8 897	
	- OS: Windows XP/Vista/7		5-1			
	(32bit/64bit)		都寺:荷重 5 103 01 0	東位 単5 D OK	E 時91 日村 本 10472世 2012/09/24	
Data logger	- CPU: more than 1GHz		110 0.3 0 111 6 0		104738 2012/09/24 104738 2012/09/24	
Simple software	- Memory: more than 1GB		112 192 0		104739 2012/06/24	
ZT-Logger	-Hard disk : more than 2GB		113 163 0 114 16 0	11	104739 2012/09/24	
	NET Framework4 later		115 0.4 0	0 OK	104729 2012/09/24	
	recommended		116 -05 0 117 -09 0		10.4739 2012/09/24	
			118 0.1.0	0 OK	104739 2012/06/24	
	*1		119 0 0	- 140	104739 2012/00/24	
	Available data: Force / Displacement		1421-10	LC		
	(Necessary to be combined with a		最大년 19202 最小년 - 3900		上間頭 234	
	test stand having linear scale) / Time		平均橋 1.813	2	干擦成 -76	
	*2		プー98月 128 標準編章 3,473		NOPERE 0	
	Please note that there is some		Test Mich HERP		1	
	possibility of not working in	* r	The image is	s one u	nder developir	۱ø.
	particular environment.		ine mage is		naor actoroph	-8.
	Accessory attachment	Accessory atta	achments'	shape	e. (an excer	pt)
	\rightarrow Please refer to ZT series Range					
	above.					\sim
A	*The set of attachments varies	0				· /)
Attachment	according to range.	1				
	*For more information,			2		
	please refer to Standard					
	attachment specifications.					
				5-3	S-6	S-7
				nical	Extension	Large
		hook sha	aped sha	aped	rod	hook

[Option]

Option	Explanation	Model
Analog voltage (Sensor raw data)	To output sensor data as fast analog voltage without conversion. *The speed is higher than D/A (standard), but there are demerits at the same time that zero reset is not possible, and there are many noises. *CB-118 cable is necessary.	-AN

[Application of Force Gauge]

ZT series enable

- 1. Controlling external equipment according to force value. (e.g. To stop or change operation of machine at selected force value.)
- 2. Adding load at a certain force value. (e.g. To hold down sample at a certain force value.)
- 3. Producing inspection device synchronized with work process. (e.g. To improving efficiency of inspection process.)
- 4. Finding inferior goods earlier with comparator (judgment of acceptance or rejection) function.(e.g. To do quality control thoroughly)

--> Please contact us or our distributor in your country for more information.

IMADA CO.,LTD. Digital force gauge ZT series separate model [Related Products]



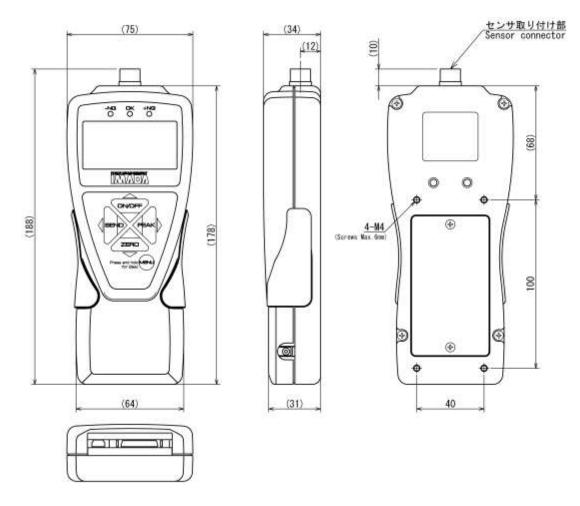
Gr	aphing S	oftware: Force-Recorde	r		
		You can select from 3			
			Professional	Standard	Light
	8, 8 5 m 7-mm 100+1	Force-time graphing Sampling rate: Max. 2000/sec	4	V	1
	第200章 (第1-1章 (第1-1章 (第1-1章) (第1-1-1)	Force gauge function setting	4	1	\checkmark
a	All Inc. Bones All Annual Sci-Mandaritt	Data storage in CSV format	4	1	\checkmark
	1-10 16-12 16-	5 graphs at maximum can be displayed in a table	~	J	N/A
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A LE ETLE DU BA	Force-displacement graphing	4	N/A	N/A
	Philane Denter	*Professional version ne			
*The image is one under developing.		*Please refer to each spe	cifications for		
Printer:DP-1VR	Optional Handles: FOH-1 Battery: BP-30		308		
					le
Prints indicated values and data in internal memory.	becomes e	rip handles firmly so it easier to apply high load for	-	Battery for replacement.	
CB-308 cable is necessary.	steadily.				

[Related Cable]

Model	Explanation	Purpose of use		
CB-108	Analog cable	To connect multi meter, oscilloscope.		
CB-118	Analog cable (For -AN option)	To connect multi meter, oscilloscope.		
CB-208	RS232C cable	To connect PC having its own system		
CB-308	Digimatic cable	To connect printer DP-1VR		
CB-508	Test stand option cable (For MX)	To connect a test stand to enable force control or overload prevention functions.		
CB-518	Test stand option cable (For MX2,EMX)	To connect a test stand to enable force control or overload prevention functions.		
CB-718	Test stand connection cable for displacement measurement (For MX2-FA)	To connect a test stand having length meter to enable force-displacement measurement.		
CB-728	Test stand connection cable for displacement measurement (For EMX-FA)	To connect a test stand having length meter to enable force-displacement measurement.		
CB-908	Open end connection cable	Output cable for loose wire 37 pin (Useful for connection with unique equipment.)		

IMADA CO.,LTD. Digital force gauge ZT series separate model [Dimensions: Display]





* Please see the specifications of each load cell for its dimensions.

[Calibration Certificate]

We offer calibration certificate at extra charge.

*Please contact us or our distributor in your country for more information.

[Cautions]

- The contents may be changed without prior notice.
- All products are designed for measurement purpose only.
- Do not copy and use this content without authority.