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ZPH Series USB model

Z2H Series Non-USB model

High Capacity Digital Force Gauge



[Applications]

- Strength test for various materials (tension test, compression test, shearing test, etc.)
- Measuring of attraction / repulsion force of solenoid or magnet.
- Adhesion test of laminated tubes.

[Features]

- Digital display of tension and compression forces
- Measuring units (kgf, N, lbf) are selectable.
- Since USB output signal is equipped for ZPH series, fast and easy to connect to computer.
- 1000 times sampling per second
- Comparator function for setting Hi / Lo point values
- Memory function to store data for analysis
- Reversible display function
- Overload prevention LED and alarm
- Push and Pull peak hold by one cycle

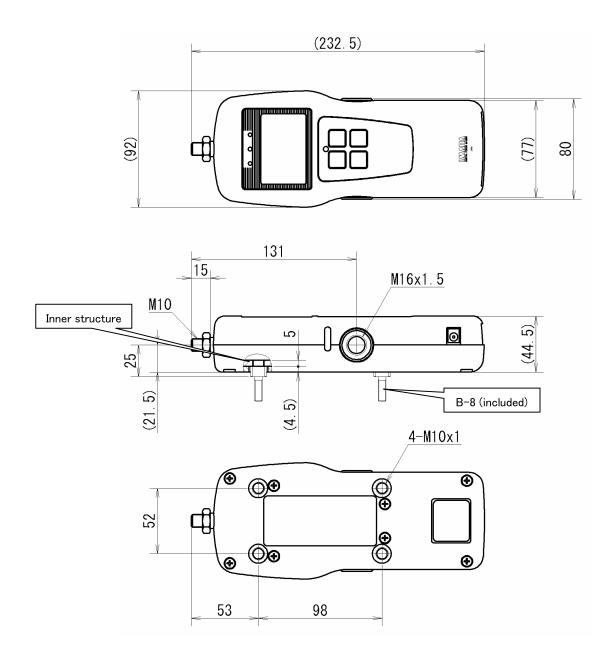
[Models]

Model		Capacity	Display	Resolution
ZPH-1000N	Z2H-1000N	1000N(100.0Kgf)	1000N(100.0Kgf)	1N(0.1Kgf)
ZPH-2000N	Z2H-2000N	2000N(200.0Kgf)	2000N(200.0Kgf)	1N(0.1Kgf)
ZPH-5000N	Z2H-5000N	5000N(500.0Kgf)	5000N(500.0Kgf)	1N(0.1Kgf)

[Specifications]

[DPecifications]				
Model	ZPH	Z2H		
Unit	Kgf / N / lbf Selectable			
Display	4 digit LCD-Unit-Mode-Overload LED-Comparator LED[Reversible]			
Sampling speed	1000 times/sec			
Display update	10 times/sec			
Usage Capacity	According to each capacity			
Overload capacity	200% F.S. (LED flashing and buzzing beyond 110%)			
A/D converter	24bit delta sigma			
Micro processor	8 bit 1 chip microprocessor			
Accuracy	+/- 0.2% F.S. +/- 1 digit			
Rattowy uso	8 hours continuous use with full charge			
Battery use	Approx. 10 hours for charge			
Use temperature	0 to +40 degree Celsius			
Power	Internal NiMH rechargeable battery, AC adapter			
	USB	Mitutoyo Digimatic		
Output	Analog(+/-2V F.S.) , RS232C			
Output	Comparator (+NG, OK, -NG): Open collector MAX30V10mA			
	Overload warning signal: Open collector MAX30V10mA			
Peak hold	"Compression OR Tension", "Compression AND Tension" selectable			
Comparator function	Programmable high/low set points with color coded indicators			
Memory function	1000 measurement values			
Display reverse function	Measurement value and unit			
Alarm	Overload and +NG(ON/OFF selectable)			
Other functions	Auto zero clear (1.0~25 sec setup)			
Other functions	damping mode (7 level setup)			
Auto power OFF	5, 10, 30, 60 minutes, and OFF selectable			
	USB cable, driver CD-ROM -			
Accessories	6 attachment, handles, mounting bolts, AC adapter,			
	instruction manual, Carrying case			
External connecting switch	Display hold, zero clear, and peak/track select			

Note: Since commercial power supply voltage varies in the area where the gauge is used, three types (100V, 120V, 230V) of voltage adapters are available. Please specify the confirmed voltage for the commercial power supply when you order.



[Notes]

- Do not apply excess force, torque, or impact on the measuring axis regardless to the power is on/off.
- Do not use the gauge under the condition of the rapid temperature changes, high temperature, high humidity, near water and dusty place.
- Keep the gauge in the exclusive carrying case when it is not used.
- The use of the test stand made by Imada is recommended for the stable measuring result.
- All information is subject to change without prior notice.