

# ALGOL-JISC

## Handy Digital Force Gauge



Order No	HF-1		HF-2		HF-5	
	Max Load	Min Resolution	Max Load	Min Resolution	Max Load	Min Resolution
	1.000 kgf 1000 gf 10 N 2.204 lbf	0.001 kgf 0.1 gf 0.001 N 0.001	2.000 kgf 2000 gf 20.00 N 4.408 lbf	0.001 kgf 1 gf 0.01 N 0.001 lbf	5.000 kgf 5000 gf 50.00 N 11.02 lbf	0.001 kgf 1 gf 0.01 N 0.01 lbf
Unit	kgf, gf, lbf, N					
Accuracy	0.2 % of F.S					
Repeatability	0.1% of F.S					
Response	Variable, 10 to 32 Hz					
Display	4 Digit LCD					
A/D Converter	16 Bit					
Calculation Device	8 Bit CPU C-MOS Type					
Allowable Load	150% of F.S.					
Data Output	Mitutoyo, Centronics, RS-232C ( Optional items required if non-Mitutoyo devices are used ).					
Analog Output	+/- 2V F.S					
Continuous Operation Time	Approx. 10 hrs ( 25 degree C when fully charged )					
Charging Time	Approx. 6 hrs ( Circuit preventing over-charging is built-in )					
Operation Temperature	0 to 40 degree C					
Power	Ni-cad Battery , A/C Adapter is also used as charging source					
Dimension	230x65x35 mm					

### HF SERIES

The HF series is used not only for load measurements but also for a variety of tests including switch test. Connector's insertion/withdrawal test and break-down test. In addition, low-cost centronics interface which enables printing of measured data and statistical data through portable printer is also available.

### Features

- **High resolution**  
1/10000 resolution (1kgf, 10kgf, 100kgf type) which is not found in common hand held models.
- **Memory function. Battery backup**  
Can memorize 512 unit testing data at most.
- **Printing of inspection report**  
Inspection report can be printed in portable printer through Centronics Interface.
- **Statistical processing**  
Automatic calculation and printing of standard deviation and process capability index.

### Insertion withdrawal measurement

Peak data under compression and peak data under tension can be done in one measurement.

### Mode setting

The HF series function not only act as a force gauge but is also designed to perform a variety of other measurements. In performing other measurements, mode setting enhances measurement efficiency.

### High functionality

- UnitChange: gf, kgf, N ,lbf.
- Measurement is possible during contact point hold (for switches normally open or normally close).
- Digimatic output.
- RS-232C (Cable is optional)
- Analog output (2V F.S)
- Auto memory with auto reset comparator with upper and lower limit tolerance setting.
- Peak hold with Break-Down detection.
- continuous operation by monitored charging function.
- More than 8 hours of battery life.
- Auto power OFF that is energy saving.
- Overload alarm output.

Order No	HF-10		HF-20		HF-50		HF-100	
	Max Load	Min Resolution	Max Load	Min Resolution	Max Load	Min Resolution	Max Load	Min Resolution
	10.00 kgf 10000 gf 100.00 N 22.04 lbf	0.001 kgf 1 gf 0.01 N 0.01 lbf	20.00 kgf ----- 200.0 N 44.08 lbf	0.01 kgf ----- 0.1 N 0.01 lbf	50.00 kgf ----- 500 N 110.2 lbf	0.01 kgf ----- 0.1 N 0.1 lbf	100.00 kgf ----- 1000.0 N 220.4 lbf	0.01 kgf ----- 0.1 N 0.1 lbf
Unit	kgf, gf, lbf, N							
Accuracy	0.2 % of F.S							
Repeatability	0.1% of F.S							
Response	Variable, 10 to 32 Hz							
Display	4 Digit LCD							
A/D Converter	16 Bit							
Calculation Device	8 Bit CPU C-MOS Type							
Allowable Load	150% of F.S.							
Data Output	Mitutoyo, Centronics, RS-232C ( Optional items required if non-Mitutoyo devices are used ).							
Analog Output	+/- 2V F.S							
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Operation Temperature	0 to 40 degree C							
Power	Ni-cad Battery , A/C Adapter is also used as charging source							
Dimension	230x65x35 mm							

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