

SHIMPO

Digital force gauge

FGP series 高精度液晶式推拉力計



SHIMPO為日本知名之精密測試儀器製造商. 提供高穩定性, 高精度, 高耐久性之尖端設計之產品。FGN/FGP液晶式推拉力計具拉力及推力雙向量測功能, 亦可和SHIMPO FGS-50VB-L(H)、FGS-50XB-L(H) 直式和橫式電動推拉力測座配合使用。FGN/FGP 液晶式推拉力計亦可與測座分離, 單獨以手持方式使用。

FGP系列功能:

1. 可執行推力或拉力雙向測試, 1000次/秒的瞬間讀取值 (+PEAK或 -PEAK) 提升測試的精確度。
2. Kg (g), N, Lb (oz) 三種計量單位可任意切換。
3. 提供上下限設定功能。
4. 可連續儲存1000個測定值並輸出至電腦。
5. 可進行統計分析. 最大值, 最小值, PEAK值, 平均值, 標準偏差值。
6. 顯示幕可正、反向切換. 可依照不同應用裝置於立、臥式電動, 手動測試台。
7. 可切換截取測量數值時間. 1, 2, 3, 5, 10, 20 次/秒。
8. 提供多種輸出功能. USB, RS-232和類比輸出。
9. 可選擇是否要自動關閉電源。
10. 搭配原廠軟體可在Excel的環境下進行多功用的數值下載, 時間力量曲線圖和統計分析。

Specifications

Model	FGP-0.2	FGP-0.5	FGP-1	FGP-2	FGP-5	FGP-10	FGP-20	FGP-50	FGP-100
Capacity(R.C.)	±2.000N (±200.0g) (±0.5lb)	±5.000N (±500.0g) (±1lb)	±10.00N (±1000g) (±2lb)	±20.00N (±2.000kg) (±5lb)	±50.00N (±5.000kg) (±10lb)	±100.0N (±10.00kg) (±20lb)	±200.0N (±20.00kg) (±50lb)	±500.0N (±50.00kg) (±100lb)	±1000N (±100.0kg) (±200lb)
Display range	±2.000N ±200.0g ±0.5lb	±5.000N ±500.0g ±1lb	±10.00N ±1000g ±2lb	±20.00N ±2.000kg ±5lb	±50.00N ±5.000kg ±10lb	±100.0N ±10.00kg ±20lb	±200.0N ±20.00kg ±50lb	±500.0N ±50.00kg ±100lb	±1000N ±100.0kg ±200lb
Resolution	0.001N 0.1g 0.001lb	0.001N 0.1g 0.001lb	0.01N 1g 0.001lb	0.01N 0.001kg 0.001lb	0.01N 0.001kg 0.01lb	0.1N 0.01kg 0.01lb	0.1N 0.01kg 0.1lb	0.1N 0.01kg 0.1lb	1N 0.1kg 0.1lb
Unit	N, kg(g), lb(oz) (Reversible display)								
Measuring mode	Standard measuring, Plus peak measuring, Minus peak measuring								
Display cycle	1, 2, 3, 5, 10, 20 times per second								
Sampling Rate	1000 times per second								
Accuracy	±0.2% R.C. ±1/2digit(23°C)								
Influence of temperature	Gain : ±0.01%LOAD/°C Zero : ±0.01%/R.C./°C (Drift of zero point can be cancelled with tracking function.)								
Display	Main display: 4-digits 12mm high, Reversible display								
	Unit display: 3-digits 7mm high								
Overload	200%R.C.								150%R.C.
Tracking	Available(ON/OFF)								
Output	USB	Communicate with PC by special application software (maximum 100 times per second). Connection cable is standard accessory.							
	RS-232C	Communicate with PC by special command (maximum 100 times per second). Connection cable is option.							
	Analog	±1V, Accuracy±50mV, through a 12 bit D/A converter, Output update 1000 times per second, Acceptable tare, Load resistance is more than 10k Ω							
	Overload/Comparator	Open-collector output (Max DC30V/5mA). Either overload output or comparator output							
Power	Rechargeable Nickel hydride battery or AC adapter/charger, Measurable during the charge, Operating hours: about 8 hours after full charge, Charging time: Max 16 hours (when the battery is full, charge is finished automatically.)								
Auto Power Off	10 minuts (not active if adapter/charge is in use) or OFF								
Memory function	Continuous memory: 1000 data, Single memory: 100 data, Standard memory: 50 data Statistic function (max, minimum, peak, average, standard deviation)								
Comparator function	Yes(high and low)								
Temperature range	0 - 40° C no condensation								
Humidity range	35~85%RH no condensation								
Dimensions	147mm* (L)x 75mm (W) x 38mm(H)								
Weight	Approx. 450g								Approx. 500g
Accessories (Included)	AC adapter/charger, carrying case, hook, chisel, flat head, notched head, hanl*, r, cone head, extension rod								
Application software	Application software (USB version)								