



## High-Performance Type (with output) FGP Series

### Extensive measurement functions



Free downloads from website

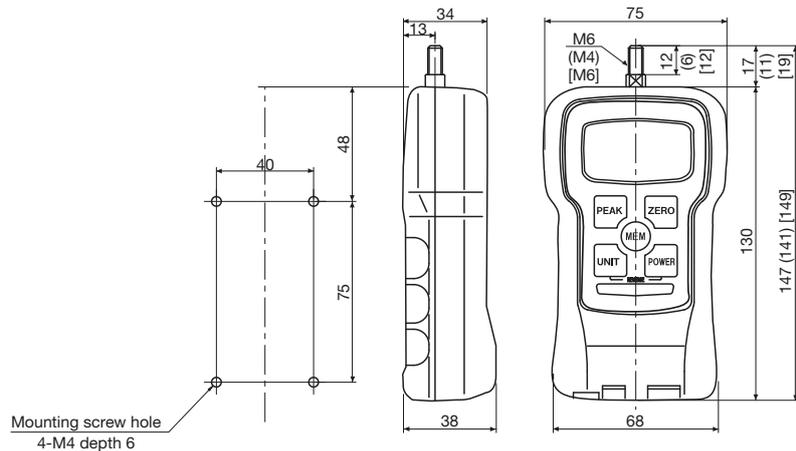
Using with a motorized test stand widens the variety of uses. Test results can be imported to a PC using the specialized software "TORIEMON USB".

- A USB interface makes adoption data import to a PC easy
- Provides 3 memory modes: Continuous, Single, and Standard  
Up to 1000 sets can be stored (continuous memory mode)
- Widens the variety of measurements when used with a motorized test stand
- Equipped with a comparator function
- Setting upper and lower limit values enables acceptance of measurement values judgment

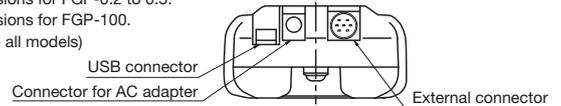
Model	Maximum load	
FGP-0.2	±2.000N	0.2kg
FGP-0.5	±5.000N	0.5kg
FGP-1	±10.00N	1kg
FGP-2	±20.00N	2kg
FGP-5	±50.00N	5kg
FGP-10	±100.0N	10kg
FGP-20	±200.0N	20kg
FGP-50	±500.0N	50kg
FGP-100	±1000N	100kg

### Dimensional drawing

(mm)



The values in parentheses ( ) show dimensions for FGP-0.2 to 0.5.  
The values in parentheses [ ] show dimensions for FGP-100.  
(Dimensions of other parts are common in all models)



### Specifications

Model	FGP-0.2	FGP-0.5	FGP-1	FGP-2	FGP-5	FGP-10	FGP-20	FGP-50	FGP-100
Rated capacity (R.C.) <sup>Note 1)</sup>	±2.000N (±200.0g)	±5.000N (±500.0g)	±10.00N (±1000g)	±20.00N (±2.000kg)	±50.00N (±5.000kg)	±100.0N (±10.00kg)	±200.0N (±20.00kg)	±500.0N (±50.00kg)	±1000N (±100.0kg)
Available display range	±2.000N (±200.0g)	±5.000N (±500.0g)	±10.00N (±1000g)	±20.00N (±2.000kg)	±50.00N (±5.000kg)	±100.0N (±10.00kg)	±200.0N (±20.00kg)	±500.0N (±50.00kg)	±1000N (±100.0kg)
Display resolution	0.001N/0.1g		0.01N/1g	0.01N/0.001kg		0.1N/0.01kg		1N/0.1kg	
Unit	Unit change between N and kg (g) (reverse display available)								
Measurement method	Normal measurement, plus peak measurement, minus peak measurement								
Display cycle	1 time/sec, 2 times/sec, 3 times/sec, 5 times/sec, 10 times/sec, 20 times/sec								
Sampling cycle	1000 times/sec <sup>Note 2)</sup>								
Accuracy	±0.2%R.C. and ±1/2digit (at 23°C)								
Display	Number display/Unit display	Signed 4-digit display (Font height: 12mm) Signs can be optionally set for the load direction, reverse display available/3-digit LCD display (Font height: 7mm)							
	Various display	(1)*LO BAT* (low battery voltage) (2)*BAT* (during charging) (3)*OVR* (overload) (4)*PEAK* (peak hold mode)							
Overload capacity	200%R.C.								150%R.C.
Tracking function	Provided (can be switched ON/OFF)								
Output signal	USB	Provided (PCs can communicate with the unit using the specialized communication software. A connection cable is a standard accessory.) Continuous transmission max. 100 times/sec							
	Other outputs	RS-232C Analog Overload Comparator (only for FGP-□) Other cables including analog cables are optional.							
Power	*AC adapter (DC9V/200mA) or built-in NiMH battery (rechargeable) *Measurement available during charging *Battery operating time: Approx. 8 hours from full charge *Charging time: Max. 16 hours (Automatically ends when fully charged)								
Auto power off function	10 min (The unit can be used while connected to the AC adapter), this function can be disabled.								
Memory function	*Continuous memory 1000 sets/Single memory 100 sets/Standard memory 50 sets (can be switched between the three memory modes) *Equipped with statistics function (max., min., peak, average, standard deviation)								
Comparator function	Available (upper and lower limits)								
Operating temperature (humidity) range	[Temperature]0 to 40°C (No condensation) [Humidity]35 to 85%RH (No condensation)								
External dimensions	Width 75 x Thickness 38 x Length 141mm			Width 75 x Thickness 38 x Length 147mm					Only Length 149mm
Weight	Approx. 450kg								Approx. 500kg
Accessories	Measurement adapters (6 types) <sup>Note 3)</sup> , hanger, AC adapter, carrying case, USB cable								
Communication software	Specialized communication software (USB compatible) Free downloads from website								

Note 1) R.C.=RATED CAPACITY Note 2) 150 times/sec when the measurement filter (f05) is set to 150msec.

Note 3) M4 measurement adapters are supplied for models of 0.5 or less, and M6 measurement adapters for those of 1 or more.

## Force Gauge Attachment Adapters (as a set supplied with the main unit)

Shape						
FGPX FGP FGJN (for M6)	Round drill 70°	Mountain shape 70°	V groove 70°	ø12mm	Hook	L : 92mm
•M4 measurement adapters are attached for models of 0.5N or less.						
MF (for M6)	Round drill 90°	Mountain shape 90°	V groove 90°	ø15mm	Hook	L : 90mm
•Adapters include a total of the 8 types mentioned above, big hook, and hook meter. For attachments for the 200N to 500N models, contact us separately.						

\*Shapes may differ slightly depending on sizes. For details, contact us.

TOREMON  
USB

### Data Import Software Specialized for FGP·FGPX

## TORIEMON USB

#### ■Functions

Use the USB cable and connect the unit to a PC. The specialized data import software "TORIEMON USB" (that can be downloaded free of charge from our website) can be used to import test results to the PC.

- Trigger (Starts data import when the specified load is attained)
- Single data import (measurement data, ±peak data)
- Continuous data import
- Import capacity: Can be set to up to 65,000 sets
- Import interval: 10, 20, 50, 100 times/sec
- Can import data by connecting through a USB port on a PC
- Equipped with the USB communication function, it's easy to connect to a PC.

