SD Card real time data recorder, Patent Fast recorder, min. 20 ms sampling time

## FORCE GAUGE 100 Kg

Model: FG-6100SD *ISO-9001*, *CE*, *IEC1010* 











The Art of Measurement

## **FORCE GAUGE**

Model: FG-6100SD

## **FEATURES**

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*	Data record mode : Normal model or Peak hold mode.
*	Normal record mode :
	Set sampling time from 1 second to 8 hours.
*	Peak hold record mode :
	Set sampling time from 10 ms to 500 ms.
*	Memory capacity of normal record mode: 1 GB to 16 GB.
*	Memory capacity of peak hold record mode :
	1000 data no. ( max. )
*	Under Peak hold record mode, if execute the " Data
	record " function, the memory circuit will store 1000
	data no. ( max. ) measuring data into the SD card per
	fast speed sampling time ( 10 ms to 500 ms ).
*	Under Normal record mode, if execute the " Data record
	" function, will save the measuring data along the real
	time value ( Year/Month/ Date/Hour/Minute/Second )
	into the SD card per normal sampling time (1 second
	to 8 hours ).
*	After save the data into the SD memory card, it can be
	down load the data to the Excel directly, extra software
	is no need. User can make the further data analysis (
	graphic analysis ) by themselves.
*	Large LCD display with back light.
	100 Kg, wide capacity, high resolution, high accuracy,
	high repeatability.
*	3 kind display unit : Kg, lb, Newton.
*	Tension & compression capability .
*	Peak hold ( Max. load ) can be held in display during
	make tension or compression measurement.
*	Zero button can operate both for normal measuring
	& the " peak hold " operation.
*	Full capacity zero (tare) control capability.
*	Fast/Slow response time push button.
*	Positive or reverse display direction select.
*	Hand held & stand mounted gauges are available.
*	Low power consumption gives long battery life.
*	Build in low battery indicator.
*	Microprocessor circuit & exclusive load cell
	transducer.
*	Over load protection.
*	RS-232 computer interface
*	Built-in DC 9V power adapter input socket.
*	Professional test stand (optional).
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## **SPECIFICATIONS**

Display	LCD ( Liquid crystal display ).		
. ,	5 digits, 16 mm (0.63") digit size.		
	Back light.		
Display	Positive or Reverse direction, select by		
Direction	the push button on the front panel.		
Function	Tension & Compression (Push & Pull).		
	Normal force, Peak hold (Max. load).		
Peak hold	Will freeze the display value of the		
	Peak load ( Max. load ).		
Zero	Zero button can be operated both for		
	"normal force" or "peak hold" operation		
Unit select	Kg, lb, Newton.		
Measure	100 Kg/220.5 lb/980.6 Newton.		
Capacity			
Resolution	0.02 Kg/0.02 lb/0.2 Newton.		
Min. Display	0.15 Kg/0.35 lb/1.4 Newton.		
Accuracy	$\pm$ (0.5 % + 0.1 Kg), within 23 $\pm$ 5°C.		
	* Under the test weight on 100 Kg & 10 Kg.		
Update time	Fast Approx. 0.2 second.		
	Slow Approx. 0.6 second.		
Over range	Display show " " when in over		
Indicator	range status.		
Overload	Max. 150 kg.		
Capacity			
Full Scale	Less than 1 mm.		
Deflection			

Normal data	Auto	1 sec to 8 hour 59 min. 59 sec.	
record mode	data	@ Sampling time can set to 1 second,	
	logger	but memory data may loss.	
Sampling Time	Manual	Push the data logger button	
Setting range	data	once will save data one time.	
	logger	@ Set the sampling time to	
	1-33-	0 second.	
		@ Manual mode, can also select the	
Peak hold	10 mC to E	1 to 99 position (Location) no.	
	10 mS to 5		
data record		ting step is 10 mS.	
mode	* Auto dat		
Sampling Time	* The men	nory circuit will store 1000	
Setting range	data no.	( max. ) measuring data.	
Data error no.	0.1% of tot	tal saved data max.	
Memory Card	SD memory	y card. 1 GB to 16 GB.	
Advanced	* SD memory card Format		
setting	1	ime ( Year/Month/Date,	
		ite/Second)	
		ng time ( normal data record mode )	
		· ·	
		ng time ( peak hold data record mode)	
	1	er OFF management	
	* Unit settin	-	
		Sound ON/OFF	
	* Decimal po	oint of SD card setting	
Data output	RS 232/USI	B PC computer interface.	
		the optional RS232 cable	
	1	will get the RS232 plug.	
	1	the optional USB cable	
	1	•	
Zoro/toro		vill get the USB plug.	
Zero/tare	Max. full ca	ірасіту.	
Control			
Sensor type	S type load		
Circuit		nicroprocessor LSI-circuit.	
Power Supply	* Alkaline	or heavy duty DC 1.5 V battery	
	( UM3, A	A) x 6 PCs, or equivalent.	
		dapter input. ( AC/DC power	
		s optional ).	
Power Current		eration ( w/o SD card save	
		CD Backlight is OFF) :	
	1	DC 7 mA.	
	When SD card save the data and LCD		
	Backlight is OFF):		
		DC 38 mA.	
		acklight on, the power	
	consumption will increase approx.		
	3 mA.		
Operating	0°C to 50°C	( 32°F to 122°F ).	
Temperature		•	
	Less than 9	80% RH	
Operating	Less than 8	80% RH.	
Operating Humidity			
Operating Humidity Dimension	215 x 90 x	45 mm ( 8.5 x 3.5 x 1.8 inch ).	
Operating Humidity Dimension Weight	215 x 90 x 650 g ( 1.4	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries.	
Operating Humidity Dimension Weight Mounting	215 x 90 x 650 g ( 1.4 Main instru	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are	
Operating Humidity Dimension Weight	215 x 90 x 650 g ( 1.4 Main instru provided or	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries.	
Operating Humidity Dimension Weight Mounting	215 x 90 x 650 g ( 1.4 Main instru	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are	
Operating Humidity Dimension Weight Mounting	215 x 90 x 650 g ( 1.4 Main instru provided or mounting.	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are	
Operating Humidity Dimension Weight Mounting Holes	215 x 90 x 650 g ( 1.4 Main instru provided or mounting. Operating r	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are n the back case, easy stand	
Operating Humidity Dimension Weight Mounting Holes Accessories	215 x 90 x 650 g ( 1.4 Main instru provided or mounting. Operating r 100 Kg sen	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are the back case, easy stand manual	
Operating Humidity Dimension Weight Mounting Holes Accessories	215 x 90 x 650 g ( 1.4 Main instru provided or mounting. Operating r 100 Kg sen 2 meter cal	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are the back case, easy stand manual	
Operating Humidity Dimension Weight Mounting Holes Accessories Included	215 x 90 x 650 g ( 1.4 Main instru provided or mounting. Operating r 100 Kg sen 2 meter cal Carrying ca	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are the back case, easy stand manual 1 PC. sor with 2 hooks and ble 1 PC. see 1 PC.	
Operating Humidity Dimension Weight Mounting Holes Accessories Included Optional	215 x 90 x 650 g ( 1.4 Main instru provided or mounting. Operating r 100 Kg sen 2 meter cal Carrying ca	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are in the back case, easy stand  manual	
Operating Humidity Dimension Weight Mounting Holes Accessories Included	215 x 90 x 650 g ( 1.4 Main instru provided or mounting. Operating r 100 Kg sen 2 meter cal Carrying ca * SD meme * Test stan	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are in the back case, easy stand  manual	
Operating Humidity Dimension Weight Mounting Holes Accessories Included Optional	215 x 90 x 650 g ( 1.4 Main instru provided or mounting. Operating r 100 Kg sen 2 meter cal Carrying ca * SD meme * Test stan * Electrical	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are in the back case, easy stand  manual	
Operating Humidity Dimension Weight Mounting Holes Accessories Included Optional	215 x 90 x 650 g ( 1.4 Main instru provided or mounting. Operating r 100 Kg sen 2 meter cal Carrying ca * SD meme * Test stan * Electrical	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are in the back case, easy stand  manual	
Operating Humidity Dimension Weight Mounting Holes Accessories Included Optional	215 x 90 x 650 g (1.4 Main instru provided or mounting. Operating r 100 Kg sen 2 meter cal Carrying ca * SD meme * Test stan * Electrical * Wedge gi	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are in the back case, easy stand  manual	
Operating Humidity Dimension Weight Mounting Holes Accessories Included Optional	215 x 90 x 650 g (1.4 Main instru provided or mounting. Operating r 100 Kg sen 2 meter cal Carrying ca * SD mem * Test stan * Electrical * Wedge gi * RS232 ca	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are in the back case, easy stand  manual	
Operating Humidity Dimension Weight Mounting Holes Accessories Included Optional	215 x 90 x 650 g (1.4 Main instru provided or mounting. Operating r 100 Kg sen 2 meter cal Carrying ca * SD mem * Test stan * Electrical * Wedge gi * RS232 ca * USB cable	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are in the back case, easy stand  manual	
Operating Humidity Dimension Weight Mounting Holes Accessories Included Optional	215 x 90 x 650 g ( 1.4 Main instru provided or mounting. Operating r 100 Kg sen 2 meter cal Carrying ca * * SD mema * Test stan * Electrical * Wedge g! * RS232 ca * USB cable * Software	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are in the back case, easy stand  manual	
Operating Humidity Dimension Weight Mounting Holes Accessories Included Optional	215 x 90 x 650 g (1.4 Main instru provided or mounting. Operating r 100 Kg sen 2 meter cal Carrying ca * SD mem * Test stan * Electrical * Wedge gi * RS232 ca * USB cable * Software recorder.	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are in the back case, easy stand  manual	
Operating Humidity Dimension Weight Mounting Holes Accessories Included Optional	215 x 90 x 650 g (1.4 Main instru provided or mounting. Operating r 100 Kg sen 2 meter cal Carrying ca * SD mem * Test stan * Electrical * Wedge gi * RS232 ca * USB cable * Software recorder.	45 mm ( 8.5 x 3.5 x 1.8 inch ). 3 LB )/with batteries. ment with mounting holes are in the back case, easy stand  manual	

<sup>\*</sup> Appearance and specifications listed in this brochure are subject to change without notice.