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

## FORCE GAUGE 20 Kg

Model: FG-6020SD *ISO-9001, CE, IEC1010* 









Test stand, optional FS-1001



The Art of Measurement

LUTRON ELECTRONIC

## **FORCE GAUGE**

Model: FG-6020SD

## **FEATURES**

Г	EATURES				
*	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 (				
L	graphic analysis ) by themselves.				
*	Large LCD display with back light.				
*	20 Kg, wide capacity, high resolution, high accuracy,				
Ŀ	high repeatability.				
*	3 kind display unit : Kg, lb, Newton.				
*	Tension & compression capability .				
*	Peak hold ( Max. load ) can be held in display during				
Ļ	make tension or compression measurement.				
l^	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.  Full line accessories ( adapters ) are included.				
*	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).				

## 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	20.00 Kg/44.10 lb/196.12 Newton.			
Capacity				
Resolution	0.01 Kg/0.01 lb/0.02 Newton.			
Min. Display	0.02 Kg/0.07 lb/0.3 Newton,			
Accuracy	$\pm$ (0.5 % + 2 digits), within 23 $\pm$ 5°C.			
	* Under the test weight on 10 Kg & 20 Kg.			
Update time	Fast Approx. 0.2 second.			
	Slow Approx. 0.6 second.			
Over range	Display show " " when in over			
Indicator	range status.			
Data output	RS 232/USB PC computer interface.			
	* Connect the optional RS232 cable			
	UPCB-02 will get the RS232 plug.			
	* Connect the optional USB cable			
	USB-01 will get the USB plug.			

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.		
Setting range	logger	@ Set the sampling time to		
	logger	0 second.		
		@ Manual mode, can also select the		
D. d. b. Li	10 0 1	1 to 99 position (Location) no.		
Peak hold		500 mS.		
data record		setting step is 10 mS.		
mode	* Auto data logger			
Sampling Time	* The memory circuit will store 1000			
Setting range	data no. ( max. ) measuring data.			
Data error no.	0.1% of total saved data max.			
Memory Card	SD mem	ory card. 1 GB to 16 GB.		
Advanced	* SD mer	nory card Format		
setting	* Set cloc	k time ( Year/Month/Date,		
_	Hour/Minute/Second )			
	* Set sampling time ( normal data record mode )			
	* Set sampling time ( peak hold data record mode)			
	* Auto power OFF management			
	* Unit setting			
	* Unit setting  * Set beep Sound ON/OFF			
		I point of SD card setting		
Overload	Max. 30			
	IVIAX. 30	ky.		
Capacity	Δ	0.4		
Full Scale	Approx.	0.4 mm max.		
Deflection				
Zero/tare	Max. full	capacity.		
Control				
Transducer	Exclusive load cell.			
Circuit		microprocessor LSI-circuit.		
Power Supply * Alkaline or heavy duty DC 1.5 V batter				
( UM3, AA ) x 6 PCs, or equivalent		, AA) x 6 PCs, or equivalent.		
		adapter input. ( AC/DC power		
		er is optional).		
Power Current		pperation ( w/o SD card save		
		LCD Backlight is OFF) :		
	Approx. DC 7 mA.			
	When SD card save the data and LCD			
	Backlight is OFF) :			
	Approx. DC 38 mA.			
		backlight on, the power		
		mption will increase approx.		
	3 mA.			
Operating	0°C to 50	0°C (32°F to 122°F).		
Temperature				
Operating	Less that	n 80% RH.		
Humidity				
Dimension	215 x 90	x 45 mm ( 8.5 x 3.5 x 1.8 inch ).		
Weight		1.43 LB )/with batteries.		
Mounting		trument with mounting holes are		
Holes	provided on the back case, easy stand			
	mounting			
Accessories		g manual1 PC.		
Included		d adapter 1 PC.		
IIIciuucu				
	Hook adapter 1 PC. Cone head adapter 1 PC.			
		ead adapter 1 PC.		
		extension rod		
L		case 1 PC.		
Optional		emory card ( 2 GB )		
Accessories		and, Model : FS-1001		
	* Wedge	grip, Model: WG-01		
	* RS232 cable, Model : UPCB-02.			
		ble, Model: USB-01		
		re for data logging & data		
	record			
		: SW-U801-WIN.		
		data acquisition software		
	iviouel	: SW-E802		

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