SD Card real time data logger, 4 to 20 mA transmitter output

VIBRATION DATA RECORDER

Model : MVB-385SD   *ISO-9001, CE, IEC1010*

LUTRON ELECTRONIC

The Art of Measurement

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VIBRATION DATA RECORDER
Model : MVB-385SD

FEATURES

* Applications for industrial vibration monitoring : All industrial machinery vibrates. The level of vibration is a useful guide to machine condition. Poor balance, misalignment & looseness of the structure will cause the vibration level increase, it is a sure sign that the maintenance is needed.	
* Frequency range 10 Hz – 1kHz, sensitivity relative meet IOS 2954.	
* Proffesional vibration meter supply with vibration sensor & magnetic base, full set.	
* Metric & Imperial display unit.	
* Acceleration, Velocity measurement.	
* RMS, Max hold , Peak value measurement.	
* Max. Hold reset button, Zero button.	
* Wide frequency range.	
* Data hold button to freeze the desired reading.	
* Memory function to record maximum and minimum reading with recall.	
* Separate vibration probe with magnetic base, easy operation.	
* Real time SD memory card Datalogger, it Built-in Clock And Calenda, real time data recorder, sampling time set From 5 second to 3600 seconds.	
* Innovation and easy operation, computer is not need to setup extra software, after execute datalogger, just take away the SD card from the meter and plug in the SD card into the computer, it can down load the all the measured value with the time information(year/month/date/hour/minute/second) to the Excel directly, then user can make the further data or graphic analysis by themselves.	
*Sd card capacity : 1GB ~ 16 GB	
* LCD with green light backlight, easy reading.	
* Can default auto power off or manual power off.	
* Data hold, record max. and min. reading.	
* Microcomputer circuit, high accuracy.	
* Power by UM4/AAA(1.5V) x 6 batteries or DC 9V adapter.	
* RS232/USB PC COMPUTER interface.	

Advanced setting	* Set clock time (Year/Month/Date, Hour/Minute/ Second) * Set sampling time * Set Auto Power OFF * Set beeper sound ON/OFF * Set SD card Decimal character * SD memory card Format * Set UNIT
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.
Operating Temperature	0 to 50 ℃.
Operating Humidity	Less than 85% R.H.
Power Supply * Meter & probe	* DC 9V adapter input. (AC/DC power adapter is optional).
Power Supply * Clock backup probattery	* Alkaline or heavy duty DC 1.5 V battery (UM4, AAA) x 6 PCs, or equivalent.
Weight	199 g/0.44 LB.
Dimension	132 x 80 x 32 mm (5.2 x 3.1 x 1.3 inch)
Accessories Included	* Instruction manual......................................1 PC. * Vibration Sensor(VB-81A).......................... 1 PC. * Magnetic base for VB sensor......................1 PC. * Plug for the 4-20 mA output, SKT-AS385......1 PC.
Optional Accessories	* SD Card * USB cable, USB-01. * RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN. * Excel Data Acquisition software, SW-E802. * AC-AP9VA (AC to DC 9V adapter)

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 60 mm x 50 mm
Measurement	Acceleration, Velocity
Memory Card	SD memory card. 1 GB to 16 GB.
Datalogger Sampling Time	5/10/30/60/120/300/600/1800/3600 seconds
Data error no.	≦ 0.1 % no. of total saved data typically.
Update Time of Display	Approx. 1 second if measuring data is changed.

ELECTRICAL SPECIFICATIONS (23± 5 ℃)

Function	Unit	Range and Resolution	Accuracy
Acceleration	m/s^2	0.5 to 199.9 m/s^2	± (5% reading + 2 d)
	g	0.05 to 20.39 G	@ 80 and 160Hz
	ft/s2	2 to 656 ft/s2	
		Calibration Point: 50 m/S^2 (160 Hz)	
Velocity	mm/s	0.5 to 199.9 mm/s	
	cm/s	0.05 to 19.99 cm/s	± (5% reading + 2 d)
	inch/s	0.02 to 7.87 inch/s	@ 80 and 160Hz
		Calibration Point: 50 mm/s (160 Hz)	

* Appearance and specifications listed in this brochure are subject to change without notice.   250612-MVB385SD