RMH-301B

Digital Strain Recorder



Suitable for long-term measurement in the absence of personnel under the environment without external power supply

- Small and lightweight
- Equipped with a display used to confirm setting conditions and measured values
- Easy to collect data by USB memory

Digital strain recorder RMH-301B is a battery-powered data collection device with low power consumption, suitable for long-tem measurement in the absence of personnel at the places without external power supply such as long-distance mountainous and heavy-snowfall area.

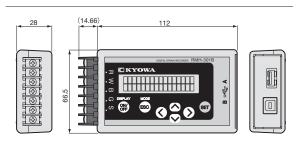
Enables to Strain gage civil engineering transducers and civil engineering transducers with tempmeas function and of single-channel measurement.

Equipped with operation panel and display enables operation relating to measuring condition setting and measurement.

Data can be collected via USB memory. Data can be easily reclaimed at site just by inserting USB disk. In addition to original forms, data can be saved in CSV format.

The optional software (RMH-390A) can be used to control computers and collect data through USB interface.

Dimension



Collected saving date by USB memory

Specifications

Hard ware	
Number of Measuring	Channel: 1
Applicable transducer	
	Strain gage civil engineering transducer
	Civil engineering transducer with tempmeas function
	stance: 350Ω (Full bridge system)
Cable length:	0.5mm ² 4-conductor shielded cable maximum 2.0km
Gage factor :	Fixed 2.00
Bridge current :	Approx DC 2.19mA (constant current)
Temperature measure	
	DC 0.24mA (constant current)
Measuring range :	Strain capacity: ±20000 µm/m
	Temperature :-30.0 to+70.0°C
Resolution :	Strain measurment :1µm/m
Measuring accuracy:	Temperature : 0.1°C Strain capacity : ±0.1%FS
Measuring accuracy :	Temperature : ±0.5°C
Data storage :	Strain capacity: 30720 times
	Temperature : 30720 times
	Strain + temperature:20475 times
Clock:	Year (2 digits of the Gregorian calendar),
	Month, Date, Hour, Minute
Measuring interval :	1 to 59 minute (with 1 minute as the unit)
Diselect	1 to 99 hour (with 1 hour as the unit)
Display : Operation :	LCD (16 digits×2 lines)
Interface :	Arrow keys, ON / OFF, SET, ESC USB1.1
Power supply:	DC 6 to 15V
Current consumption :	100mA during operation and below
	100 µA under standby status
Input specifications :	M3 bolt suitable to crimp
	terminal RAV, 1.25-3 equivalents
Operating temperature	e range: -20 to 50°C
	nge: 10 to 95%RH (no-condensing)
Operating environmen	nt : No external interference caused by
51 1	grime and large-capacity motors, etc.
	×28(H)×66.5(D)mm(excluding protrusions)
Weight: Approx	
Setting function :	MH-390A) optional accessories Setting of data collection conditions
Setting function .	(measuring name, measuring point number,
	final measuring channel) setting of channel
	conditions (transducer name, measuring point
	mode, initial value, calibration factor and unit)
Collection function :	Measurement start (measurement start time,
	interval measurement time and measurement times)
	Measurement stop
	Data collection (USB, RS-232C)
	(measuring data is automatically saved
1100	as data collection pass)
USB storage function :	Entering measuring conditions
Data diaplay:	Data collection Initial data display/physical quantity display
Data display :	value display (display channel and display period setting)
	Time series chart display (maximum 3 charts-
	display channel· display period setting, line type
	and color selection, automatic and calibration)
	Print (printer printing documents)
Data editing :	Measuring data editing
	(editing of title and data parts)
Data conversion :	Converted to ASCII format
Check function :	Self diagnosis of measurer (inspection of A-D,
	cell voltage, transducer and ROM / RAM)
	test measurement
Others:	real-time monitoring Address book setting. Communications condition
Juicis.	Address book setting, Communications condition setting, Time setting and Help function
Operating environme	ŭ ,
	crosoft Windows (32bit, Japanese version)
	2000 Professional, XP Home Edition
	XP Professional, Vista
Interface: US	SB Interface (RMH-301B)
	O-ROM or DVD
	r software installation)
	ntiumIII, 1GHz or higher
	M 512MB or more
	and disk capacity or more 20MB (for installation,
	cluding that for data)
	are capacity or more 10MB (excluding that for
	ving measuring data) gh resolution video or more
	per VGA (800×600)
	aptor and monitor or more 1024×768,
	more full-color
	yboard and Microsoft Mouse
	interchangeable pointing device
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Optional Accessories Battery pack RB-5A(5Ah) RB-10A(10Ah)