

# Mult - Logger Jr HM1616S series



## Application

- weather observation
- seismological observation
- foundation observation
- nature of the soil test
- rock test
- environment test
- creep test
- material test
- scene measuring
- chemistry analysis
- automobile test
- almighty measuring device

Various sensor is able to connect

### <Distortion gauge sensor>

Load cell. Displacement gauge  
Pressure gauge. Differential pressure. Gap Water pressure.  
Thermometer. LDI.  
Voltage output sensor. and etc.

### <Counting sensor>

High accuracy displacement.  
Magunet scale. and etc.

## Phenomenon and move

It catches

## HM1616S series



- \* Plural measuring data preservation, setting information possibility in Logger.
- \* Measurement in long time, an outside battery only by possibility.
- \* Distortion sensor correspondence A/D transformation device (16 bits, 100KHz)
- \* Highly efficient degree ( $\pm 0.05\%$ ),
- \* Program gain amplifiers (x1, x10, x100, x1000)
- \* Amp input: 8CH counter input: 6CH(1MHz)
- \* Displacement total Linner guage an example  $\pm 30$  mm, 1/1000 mm)
- \* Correspondence possible displacement total Linner guage is a Peacock, Mitutoyo, Ono sottuki product
- \* Data accumulation memory capacity (1.75MB: Nicad battery backup)
- \* Sampling rate time (2 milliliter seconds ~ 200 minutes) & the sampling by measuring data fluctuation
- \* The setting of none, the product arithmetic average number (1 ~ 1500) of the measurement possibility/ impossible, early period value computation of the channel are produced.
- \* Measuring data continues it if it recovers even if, be preserved to the inside memory of HM1616 x and have a power failure.
- \* Mult Logger Jr independent use produced and advanced measuring produced even easy operation.
- \* Various kinds condition setting with • (belonging soft (serial I/F on Windows 95/98/Me/2000/XP))
- \* Various kinds condition setting, real time numerical value/chart wave-likes/X-Y displays, Excel files (CSV)
- \* Compact Height 93, Width 190, Length 220, light it is (about 1. Five kg), low power (standard 3W)
- \* It is OP soft equipment furthermore.
- \* High accuracy, low price. Both power supply correspondence of AC/DC.

Able to use the advanced cheap nature of the soil test analysis software of HMD with the file transformation support. HM1616S (distortion input 8); HM1616SDx (distortion input 8+digital input 6); - C F (add on 64M CF)

The contents that were entered to the attention: this book sometimes change it without notice for the product improvement.

Inquiry

Data Logger/amplifier/sensor/soft/measuring system/test machine/besides



Co., Ltd. Hamada electrical machinery

T E L ( 0 4 2 4 ) 7 3 - 4 0 4 1

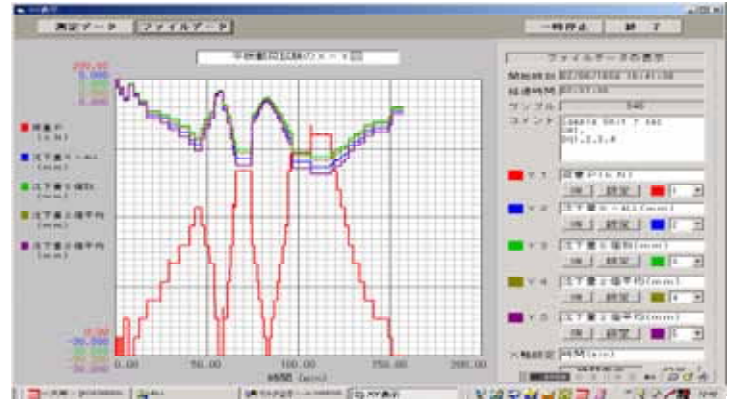
F A X ( 0 4 2 4 ) 7 2 - 0 0 8 9

Home Page <http://www.hmd-dk.jp>

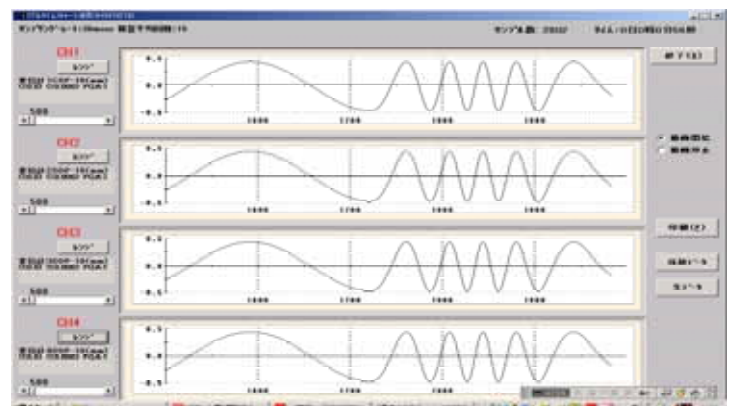
Address 〒203-0013 Tokyo Higashikurume-shi Shinkawa-cho 2-4-5 memory Manshon 1F

Real time numerical value display, free X-Y drawing figures and also chart of voltage/units

PGA	データ	ヒストリ名称と単位	定数	係数	拡大
100	CH1 -8.778480	荷重計TOLZ-100MA(kN)	10.0	2.5000	
100	CH2 74.800220	軸変位計CDH-50(mm)	50.0	50.000	
100	CH3 0.251160	縦変ゲージ0(%)	2.0	1.0000	
100	CH4 0.251007	縦変ゲージ100(%)	2.0	1.0000	
100	CH5 0.251312	縦変ゲージ90(%)	2.0	1.0000	
100	CH6 0.251312	縦変ゲージ0(%)	2.0	1.0000	
100	CH7 0.251160	縦変ゲージ100(%)	2.0	1.0000	
100	CH8 0.253808	縦変ゲージ240(%)	2.0	1.0000	
100	DG1 0.000000	軸変位計1デジタル(mm)	20.0	0.001	
100	DG2 0.000000	軸変位計2デジタル(mm)	20.0	0.001	
100	DG3 0.000000	軸変位計3デジタル(mm)	20.0	0.001	
100	DG4 0.000000	軸変位計4デジタル(mm)	20.0	0.001	
100	DG5 0.000000	軸変位計5デジタル(mm)	20.0	0.001	
100	DG6 0.000000	軸変位計6デジタル(mm)	20.0	0.001	



タイム: 0日 19時 26分 42秒  
**CH1 67.119096**  
**DG1 10.595200**  
**DG2 10.970400**  
**DG3 10.853700**  
**DG4 10.605000**



(Specification)

<ul style="list-style-type: none"> <li>• distortion amplifier - A/D transformation</li> </ul>		<ul style="list-style-type: none"> <li>• counter input (option)</li> </ul>	
Resolving power	16 bits (100KHz)	inside 32 bit (1MHz)	
Input channel	differential motion 8 channel	6 channel	
Input range	Bipolar -5~+5 [V] ±0.05%	A/B 2 phase	
Voltage protection	At the time of power supply on	-32~+32 [V]	
	At the time of power supply off	-35~+55 [V]	
Input impedance	10 [M Ω] over		
Input capacitor	50 [pF] below		
Input Leake current	±40 [nA] below		
Output voltage	DC 2V		
PGA	x1, x10, x100, x1000		
Data collection memory	1.75MB: battery backup/32 Data files/16 Setting files		
<ul style="list-style-type: none"> <li>• sampling</li> </ul>			
Interval timer	2~999 [msec] & data		
Real time clock	1~200 [sec]/1~200 [minute] & data		
<ul style="list-style-type: none"> <li>• serial interface</li> </ul>			
Rate	RS232 C (1 channel) forwarding speed (38400bps) data long (8 bits) stop bit (1 bit)		
<ul style="list-style-type: none"> <li>• power supply</li> </ul>			
Power supply voltage (+10V~+16V)	AC/DC adapter +12 [V] 250mA (MAX750mA)		
Consumption electric power	3[W]		
<ul style="list-style-type: none"> <li>• temperature/humidity standard</li> </ul>			
Operation	Temperature :+5 ~+40 °C humidity: 20 ~ 80% RH		
<ul style="list-style-type: none"> <li>• weight</li> </ul>			
Case size	About: Length=220 Width=190 High=93 [mm]		
Weight	1.5 [kg] AC/DC adapters it does not include it		

Model name	Outline specification	Price in Japan
J r HM1616	Software for a personal computer	¥40,000
HM1616S	8ch distortion input, Excel style output, LCD accompaniment	¥360,000
HM1616SMD	8ch distortion input and also 6ch counting input, Excel style	¥470,000
HM1616SMD	8ch distortion input and also 6ch counting input, Excel style output, LCD accompaniment	¥470,000
HM1616SD	Counting input sensor be Mitutoyo/Ono Sokki correspondence	
HM1616SD	8ch distortion input and also 6ch counting input, Excel style output, LCD accompaniment	¥500,000
HM1616SD	Counting input sensor be Peacock correspondence	
- C F	add on CF (64M Compact Flash)	¥60,000