





ME-84U Centralized On-line Monitoring System									
DESCRIPTION	FEATURES		PECIFICATIONS		SYSTEM CONFIGURATION	SOFTWARE	MODULES / ACCESSORIES		
The ME-84U Centralized On-line Monitoring System, with waterproof and dustproof	Ø Adopts the design of infinite extension to meet the test needs of large structure and large number of measuring	Number of slots(single chassis)				PHM Monitoring Software: Based on B/S architecture, it realizes the function of local LAN and Internet network equipment	ME-84U Host Chassis Ø 16 card slots		
chassis and 19-inch standard chassis, can be	points	Standard case	16 card slots			management.	O Communicate with upper computer via Ethernet Built-in 32G SSD Built-in 32G SSD		
physical quantities such as force, stress,	Ø Suitable for outdoor harsh environment with the requirements of lightning protection, anti-strong	Waterproof case	16 card slots	_0 —	7	The software can realize remote monitoring of field equipment running status To enable real-time monitoring and analysis,	Ø 220V AC power supply		
vibration, acceleration, speed, temperature, current.	magnetic, vibration resistance, waterproof, dustproof and	Number of channel in card slot	4 channels/card	Temperature Sensor		Including user management, data storage, alarm setting, power off self-recovery, fault setting and other functions	Ø Optional of 19" 3U standard chassis with IP50 rating and waterproof chassis with IP65 rating		
	Ø DMA for real-time, high speed, stable data	Acquisition card type	Dynamic acquisition card/ Static acquisition card (any combination)	<u>u</u>		The algorithm includes correlation analysis, statistical analysis, strain flower calculation, trend	Materproof Grassis Will II of Haing		
By using Ethernet network communication technology, a large-scale testing system with		Dynamic Acquisition Card		Piezoelectric Accelerometer	Signature And State Stat	analysis and spectrum analysis	ME-84U DAQ Card		
over a thousand channels can be built to monitor large structures for 24 hours.	data processing Built-in electronic hard disk for storing the measuring	Sampling rate	1k~128kHz shift	Pionessisting Appelanments	Ethernet 0 1 1		Ø 4 input channels Ø Optional input of voltage, IEPE, strain/stress, 4 ~ 20 mA current		
ME-84U can record the operating parameters	data from all channels in real time. After 8 hours (4 hours) of continuous storage, the data before 8 hours (4	8 Channels/one chassis	Max. 128kHz / channel	A	Municededie		and charge Ø Up to 128kHz/channel sampling rate		
of the equipment, and will give an alarm in time in case of failure, and collect as much	hours) will be overwritten. In order to meet the	16 Channels/one chassis	Max. 51.2kHz / channel		ME-84U		Ø Analog quadratic integral Ø DSP real-time signal processing system for analyzing the		
equipment fault information as possible, so	requirements of data storage speed, the maximum sampling frequency is 25.6kHz/channel for simultaneous	32 Channels/one chassis	Max. 25.6kHz / channel	Displacement Sensor			spectrum and envelope of input signal		
as to provide reliable data for understanding accident phenomena, finding the cause of	sampling of 32 channels, and 51.2kHz/channel for simultaneous sampling of 16 channels, and	64 Channels/one chassis	Max. 12.8kHz / channel				ME-84U Real-time Order Analysis Card Ø 1 Tacho input channel		
failure and analyzing the damage caused.	128kHz/channel for simultaneous sampling of 32 channels	Static Acquisition Card	1/2/5/10/20/50/100/200Hz shift		_		Ø Built-in DSP system for multi-channel order analysis, spectrum analysis and envelope analysis		
	Ø Channel card grouping is supported, and users can	Sampling rate A/D Converter	1/2/5/10/20/50/100/200Hz shift 24 bits	Magnetoelectric Sensor					
	according to the test needs		According to customer requirements, real-time analysis and						
	System self-check function: the system (including sensor, collector and software) can be automatically	Built-in DSP System	processing of various signals (FFT, statistical information, etc.), and real-time transmission of the results to the control card;		Figure 1 Single System Block Diagram				
	detected at startup, timing and any time required by the	Dynamic IEPE Acquisition Card(ME-84U-1)	and real-time transmission of the results to the control card;						
	Ø The system communication has self-recovery ability		24V/4mA						
	after network disconnection, real-time display of network status information, and the system has built in watchdog	Gain	1,10,100,1000 (By FOC)	0 —	Water -				
	protection, which can restore the working state before power outage and network interruption.		input signal greater than ±15V (DC or AC peak), input full	Temperature Sensor	- American Control of the Control of				
		Input Protection	protection	Prozeelectric Assetercementer		THE PARTY OF THE P			
		System Accuracy	<0.5% F.S	Preparation Accelerates	Switch				
		System Stability	0.05%/h	1 —					
		*	0.1% F.S	Displacement Bensor	white .				
		Distortion	≤0.5%		The state of the s				
		Analog Double Integration		Magadadackic Sersar	ME-84U	min ille Jan an an			
		One-time Integration	1Hz ~ 1kHz or 10Hz ~ 10kHz Amplitude error: < 3%						
		Quadratic Integration	1Hz ~ 100Hz or 10Hz ~ 1kHz Amplitude error: < 5%		Figure 2 Multi-system Block Diagram				
		Dynamic Strain Acquisition Card(ME-84U-3)							
			2V, 5V, 10V (By FOC)						
		Range	1000με, 10000με, 100000με (By FOC)						
		Bridge Mode Bridge Resistance for Strain Gauge:	three-wire system quarter bridge, half bridge, full bridge						
		Half bridge, full bridge	50Ω ~ 10000Ω						
		Three-wire 1/4 bridge	1200 or 3500 (By FOC)						
		Automatic Balance Range	±20000µε						
		Strain Indication Error	± (0.5%red±3με)						
		Dynamic Current Acquisition Card(ME-84U-7)							
		Suitable for two wire system or three wire system 4	4 ~ 20mA sensor						
		***	24VDC						
		Measuring Range	4~20mA						
		Dynamic Voltage Acquisition Card(ME-84U-14)							
		Supply Voltage of The Sensor Range	5V, 12V, -24V, ±15V (By FOC) ±1V, ±5V, ±10V (By FOC)						
		Static Strain Acquisition Card(ME-84U-8)	11V, 20V, 210V (By POC)						
			2V, 5V, 10V (By FOC)						
		Measuring Range	1000με, 10000με, 100000με (By FOC)						
		Bridge Mode	three-wire system quarter bridge, half bridge, full bridge						
		Bridge Resistance For Strain Gauge:							
		Half bridge, full bridge	50Ω ~ 10000Ω						
		three-wire 1/4 bridge	120Ω or 350Ω (By FOC)						
		Automatic Balance Rrange Strain Indication Error	±20000με ± (0.5%red±3με)						
		Strain Indication Error Static Voltage Acquisition Card(ME-84U-12)	± (U.5%red±3με)						
		Bridge Supply Voltage	5V, 12V, 24V (By FOC)						
		Measuring Range	±1V, ±5V, ±10V (By FOC)						
		Static Current Acquisition Card(ME-84U-10)							
		Suitable for two wire system or three wire system 4	~ 20mA sensor						
		Power Supply	24VDC						
		Measuring Range	4~20mA						
		Static Temperature Acquisition Card(ME-84U-11)							
		Applicable Sensor Type	PT10, PT100, PT1000						
		Measuring Range Measuring Accuracy	-200°C ~ 850°C 0.5%±0.5°C						
		Measuring Accuracy Constant Current Source	0.5%±0.5°C 1mA±2uA						
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	DIO Card(ME-84U-16)			
	Number of Channels	4 channels Dl/card 4 channels DO/card		
	The DI contact type can be wet contact or dry cor	tact.		
	Max. output voltage of power output channel 24V	18		
	DO supports the selection of two signal output co	ditions: manual and channel trigger		
	Static Thermocouple Card(ME-84U-21)			
	Thermocouple Type	S, K, B, E, J, T, etc		
	Measuring Range	according to the type of thermocouple and indexing table		
	Static Magnetoelectric Acquisition Card(ME-84U	17)		
	Range	±5V		
	Input Mode	SIN-DC		
	Excitation Voltage	1.5V		
	Excitation Frequency	1Hz, 10Hz		
		-calibration function; (With the DT2D001A sensor)		
	Tachometer(ME-84U-13)			
	Number of Channels	2 channels/card		
	Power Supply	DCSV, DC-24V 50mA		
	Measuring Range	30 ~300000RPM		
	Order Card(ME-84U-4)			
	Number of Channels			
	acquisition system	der analysis of output signals of a specified group of data		
		arried out on the output signals of this group of data acquisition syst		
	Vibration Temperature Card(ME-84U-20)			
	Can work with DT185T/DT1A902/DT903/DT904E	vibration temperature sensor		
	Power Supply	24V/4mA		
	Range	±5V		
	Input Mode	IEPE		
	Number of Channels	4 channels/card (2-channel IEPE+2-channel voltage/temperature, differential input mode)		
	Instrument Protection	IP54 (waterproof case) IP50 (standard 19" 3U case)		
	Built-in Storage Capacity	32G		
	Power supply	220VAC /50Hz		
	Dimensions	490×370×220 (Waterproof chassis) 482×350×146 (19" 3U chassis)		
	Environmental Conditions			
	Operating Temperature	0°C to 40°C		
	Operating Humidity	20 ~ 90%RH@40°C		
	Storage Temperature	- 40°C to 60°C		
	Storage Humidity Vibration	90%HZ49850°C Frequency option angle: 5Hz - 55Hz - 5Hz Drive amplitude (peak): 0.59Hz - 5Hz Drive amplitude (peak): 0.59Hz Weep frequency: 5.104Pmin Duration of resonant: 10min Ultration of resonant: 10min Ultration of resonant: 50min		
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