TM500 TORQUE WAVEFORM MONITOR FOR UTM II /UTMV



Suitable torque meter UTMI UTMV

- Waveform display of torque variation against angles.*
- Suitable for low-speed rotation and linear motion applications.
- Saving measurement data and setting values in a SD card. Data can be converted to CSV format and edited in Excel format easily.
- Easy connection to UTM I /UTMV with the supplied cable.
- The unit supplies electric power to UTM II /UTMV. (Also to an optional rotary encoder*)
- * Rotary encoder option is not available for UTMV. Torque fluctuation over a period of time will be displayed in a curve/ wavefor

Application example



Specifications		
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Input signals	Torque input	-5 to +5 V Input impedance: 1 MΩ or more
	Accuracy	Non-linearity: Within 0.02% FS±1 digit
		Zero drift: Within 0.2 mV/℃ RTI
	Analog filter	Gain drift: Within 0.01%/℃ Low pass filter (-6 dB/oct.) Selectable from 30 Hz, 100 Hz, 300 Hz, 1 kH
	Arlaiog niter	
	A/D converter	Speed: 4000 times/sec. Resolution: 24 bit (binary) Effective Resolution: Approx. 1/30000 against 5
	Voltago monitor outpu	t Linked to the output voltage of the torgue meter
	Pulse input	Maximum input frequency: 50 kHz
	(Open collector)	Internal counting range: Approx. 1000000
Display	Display unit	3.5 inch TFT color LCD
Setting	Setting method	Setting by analog type touch panel operation
	Preservation of se	
External	Esternal estast	Other settings: Lithium-battery-backed-up C-MOS RAM
I/O signal	External output signal (15)	Hold result (Load, DPM) / Overload / Wave result / Complete / RUN / Load OK / DPM OK / SD OK
	External input	Load Digital Zero / DPM Positioning / Start / Stop / Hold / Reset / Backlight On / Prohibit Touch Panel / Work change
1 = 4 = = 6 = = =	signal (12)	
Interface	RS-232C interfac	
Option		(Approx. 80 waveforms can be saved by 1 MByte, SDHC and SDXC are not supported.)
		s and all comparison waveforms can be saved and restored. Measured
	,	dgment points can be saved automatically.
General performance	Power supply	DC 24 V (±15%)
	Power consumption	
	Operating conditions	s Operation temperature: -10 to +40℃ Storage temperature: -20 to +60
		Humidity: 85% RH or less (non-condensing)
	Dimension	96(W) × 96(H) × 117.3(D) mm (Not including projections)
	Weight	Approx. 1.0 kg
Attachments		···1, External input/output connector····1,
		TMV connection 2 m···1, Cable for UTM II rotary encoder connection 2 m····
		vith SDC option)····1
Optional accessories		case for TM500 (with AC power supply)
		D card 1 GByte
		D card 2 GByte
		niniDIN-D-Sub9p cross cable 1.5 m cable for UTMI/UTMV connection 2 m (Same as the attachment)
		cable for UTMI/UTMV connection 2 m (Same as the attachment)
		cable for UTMI rotary encoder connection 2 m (Same as the attachment)
		Cable for UTMI rotary encoder connection 2 m (Game as the attachment)
		CN series I/O connector (with cover) (Same as the attachment)
		CN series I/O connector (with diagonal cover)
		Sircular DIN 8p connector for RS-232C
		Vaterproof plastic connector for UTMI/UTMV connection
		Vaterproof plastic connector for UTMI rotary encoder connection
		Rubber packing
		C lighting surge unit
CE marking	EMC directives E	
certification		

such as LEDs, fluorescent display tubes and LCDs due to manufacturing process or production lots.



External dimension



UNIPULSE