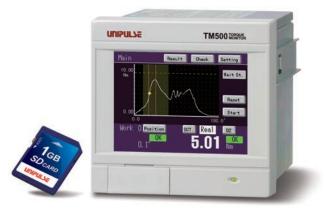
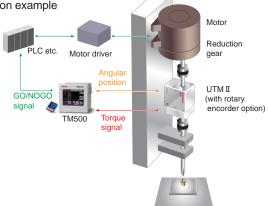
TM500 TORQUE WAVEFORM MONITOR FOR UTM II /UTMV



Suitable torque meter UTMI UTMV

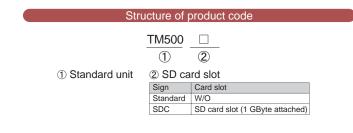
Waveform display of torque variation against angles.*

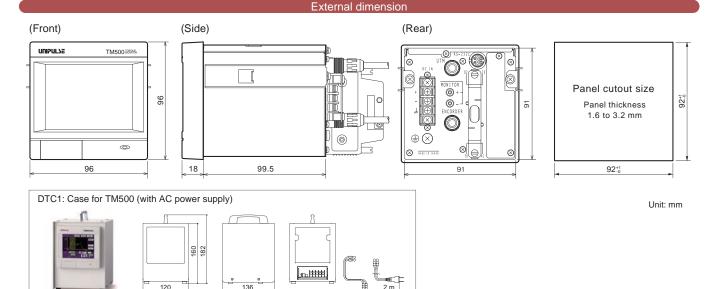
- Suitable for low-speed rotation and linear motion applications.
- Saving measurement data and setting values in a SD card. Data can be converted to CSV format and edited in Excel format easily.
- Easy connection to UTM I /UTMV with the supplied cable.
- The unit supplies electric power to UTM II /UTMV.
- (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/waveform.
- Application example



		Specifications	
Input signals	To serve la sud	5 to +5 V Input impedance: 1 M or more	
input signals	Torque input	5 to +5 V Input impedance: 1 M or more Non-linearity: Within 0.02% FS±1 digit	
	Accuracy	Zero drift: Within 0.02 mV/°C RTI	
		Gain drift: Within 0.01%/°C	
	Analog filter	Low pass filter (-6 dB/oct.) Select from 30, 100, 300, 1 kHz	
	A/D converter	Rate: 4000 times/sec	
		Resolution: 24 bit (binary) Effective Resolution: Approx. 1/30000 against 5	
	Monitor output	Input voltage return (for tester)	
	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		
		Other settings: Lithium-battery-backed-up C-MOS RAM	
External I/O signal	External output	Hold result (Load, DPM) / Overload / Wave result / Complete /	
	signal (15)	RUN / Load OK / DPM OK / SD OK	
	External input	Load Digital Zero / DPM Positioning / Start / Stop / Hold /	
	signal (12)	Reset / Backlight On / Prohibit Touch Panel / Work change	
Interface	RS-232C interfac	e	
Option	SDC: SD card slot (Approx. 80 waveforms can be preserved by 1 MByte, SDHC and SDXC are not supported		
	All indicated values and all comparison waveforms can be saved and restored. Measured		
	waveforms and judgment points can be saved automatically.		
General performance	Power supply	DC 24 V (±15%)	
	Power consumption		
		ons Temperature: Operation -10 to $+40^{\circ}$ Storage -20 to $+60^{\circ}$	
	Operating conduct	Humidity: 85% RH or less (non-condensing)	
	Dimension	96(W) × 96(H) × 117.3(D) mm (Projections excluded)	
	Weight	Approx. 1.0 kg	
Attachment	ů.	···1, External input/output connector···1, Cable for UTM I /UTMV	
		 Cable for UTM II rotary encoder connection 2 m···1, SD card 1 GByt 	
	(with SDC option)		
Optional	DTC1: C	Case for TM500 (with AC power supply)	
accessories	SD1G: 1	GByte card	
	SD2G: 2	Byte card	
	CA81-232X: n	niniDIN-D-Sub9p cross cable 1.5 m	
		Cable for UTMI/UTMV connection 2 m	
		Cable for UTMI/UTMV connection 5 m	
	. ,	Cable for UTMII rotary encoder connection 2 m	
		Cable for UTMI rotary encoder connection 5 m	
		CN series I/O connector (with cover)	
		CN series I/O connector (with diagonal cover)	
		Circular DIN 8p connector for RS-232C	
		Vaterproof plastic connector for UTM II/UTMV connection	
		Vaterproof plastic connector for UTMI rotary encoder connection	
		Rubber packing DC lighting surge unit	
CE marking			
	EMC directives EN61326-1		

Please note that there are possibilities of individual differences in a color tone on display devices such as LEDs, fluorescent display tubes and LCDs due to manufacturing process or production lots.





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