TV700 HIGH-SPEED TORQUE WAVEFORM MONITOR FOR UTMII/UTMV

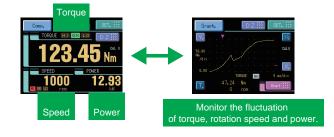




Suitable torque meter UTMI UTMV



- High-speed sampling at 20000 times/sec.!! A torque curve monitor supporting the high response time of UTMII/UTMV (1 kHz).
- Monitoring of torque, rotation speed and power*1 curves.
- Upper/lower limits & hold function.
- Easy connection to UTMII/UTMV with the supplied cable.
- Operation power can be supplied to the UTMII/UTMV. (also to an optional rotary encoder*2)
- Data recording with USB.
- *1 Power (W) = $2\pi \times \text{Torque}$ (Nm) $\times \text{Rotation speed (rpm)} / 60$
- *2 Rotary encoder option is not available for UTMV. It will be a waveform display of torque fluctuations in chronological order.



Specifications

Torque input	- Voltage input		
,	Signal input range	-5 to +5 V Input impedance: 1 M or more	
	Accuracy	Non-linearity: Within 0.02% FS±1 digit	
	,	Zero drift: Within 0.2 mV/°C RTI	
		Gain drift: Within 0.01%/°C	
	Analog filter	Low pass filter (-6 dB/oct.) Select from 10, 30, 100, 300, 1k, 3k, 10k, 30k Hz	
	A/D converter	Rate: 20000 times/sec.	
		Resolution: 24 bit (binary) Effective Resolution: Approx. 1/30000 against 5 V	
	Monitor output	Input voltage return (for tester)	
Rotation	- Pulse input (ope	n-collector)	
input	high-speed (for standard UTMII /UTMV)		
	Max. frequency	Accordance with UTMII/UTMV	
	Min. frequency	Select from 15, 10, 5, 3, 2 rpm (when pulse rate is 4 ppr)	
		Select from 60, 40, 20, 12, 8 rpm (when pulse rate is 1 ppr)	
	Min. pulse width	50 μs	
	Circuit configuration	No-voltage contact input (minus common) Open collector connectable (Ic = Approx. 10 mA	
	low-speed (for UTMII with rotary encoder option)		
	Max. frequency	Approx.1000 rpm	
	Min. frequency	0.1 rpm	
	Min. pulse width	5 µs	
		No-voltage contact input (minus common) Open collector connectable (Ic = Approx. 10 mA	
Display	Display unit	3.5 inch TFT color LCD	
External	External output (8		
I/O signal	ex) high and low limit outputs		
Ü	External input (10)		
		ex) hold control input, digital zero input (DZ)	
Interface	SIF: 2-wire serial interface		
	USB: USB interface		
	D3V: D/A converter voltage output (3 ch) (Option)		
Power supply	DC 24 V (±15%)		
Power consumption	6 W typ.		
Operating	Temperature	Operation -10 to +40°C Storage -40 to +80°C	
conditions	Humidity	85% RH or below (non-condensing)	
Dimension	96(W) × 96(H) × 1	38(D) mm (excluding projections)	
Weight	Approx. 1.0 kg		
Attachment	Operation manual···1, External input/output connector···1,		
	Cable for connecting UTMII/UTMV 2 m···1, Operating tool (with D/A converter (3 ch) option)···1		
Accessories	DTC2:	Case for TM700 (with AC power supply)	
	CA372-I/O:	Cable with FCN connector at one-end 3 m	
	CA81-USB:	miniUSB-computer USB cable 1.8 m	
	CATM21-M:	Cable for connecting UTMII /UTMV 2 m	
	CATM51-M:	Cable for connecting UTMII /UTMV 5 m	
	CATM(R)21-M:	Cable for connecting UTMII rotary encoder 2 m	
	CATM(R)51-M:	Cable for connecting UTMII rotary encoder 5 m	
	CN50:	FCN series I/O connector (with cover)	
	CN55:	FCN series I/O connector (with diagonal cover)	
	CN73: CN90:	D/A converter (3 ch) connector Waterproof plastic connector for UTMII /UTMV	
	CN90: CN91:	Waterproof plastic connector for UTMII/UTMV Waterproof plastic connector for UTMII rotary encoder	
	GMP96x96:	Rubber seal	
	TSU03:	DC lighting surge unit	
CE marking	EMC directives El	0 0 0	
certification	L Guicouves Li		
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lease 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.

Structure of product code

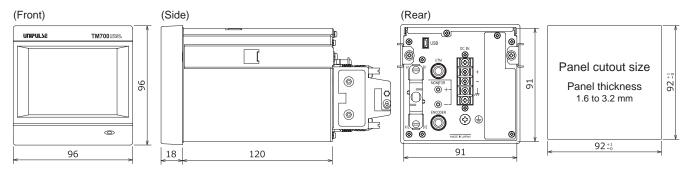
TM700 2 1

1 Standard unit

2 Interface

Sign	Interfac
Standard	SI/F, USB
D3V	D/A converter (Voltage output) (3 ch)

External dimension



Unit: mm

