TM201

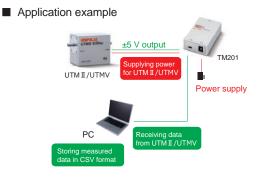
USB INTERFACE DEVICE FOR UTM II /UTMV



Suitable torque meter UTMI UTMV

- Variations of torque, rotation speed, and power* can be monitored and saved on PC. (Application software can be downloaded from our website for free)
- Maximum, minimum, and average value can be displayed.
- Measurement (numeric) data are automatically saved in CSV format.
- The unit supplies electric power to UTMI /UTMV.
- Two cables are attached: one for UTMI /UTMV and the other for PC.

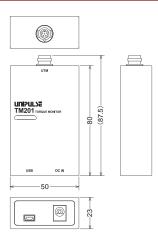
* Power (W) = $2\pi \times \text{Torque}$ (Nm) × Rotation speed (rpm) / 60



UTM Π/UTMV	Torque concer input	(voltage input)	
Interface			
	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/℃ RTI	
		Gain drift: Within 0.01%/℃	
	Analog filter	Primary low-pass filter 1 kHz (fixed)	
	Digital filter	Secondary low-pass filter fc = 3, 30, 300 Hz, OFF (depending on settings	
	Data output rate	300 times/sec.	
		Resolution: 24 bit (binary) Effective resolution: Approx. 1/30000 against 5 \	
	- Pulse input for rpm (input for open collector type)	
		ncy Compatible with the pulse output frequency of UTM II /UTMV series	
	Minimum input frequer	ncy 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)	
	Minimum pulse widt	h 50 µs	
	Circuit layout	No-voltage (dry) contact input (minus common)	
	-	open collector outputs can be connected (Ic = approx. 10 mA)	
	Power supply for UTM II /UTMV Power supply DC 24 V (UTM II /UTMV 1 unit)		
Display	LED status light	LED (Red): power supply/alarm status	
	Ū.	LED (Green): UTM II /UTMV is operating normally	
Interface	USB		
General	Power supply	AC 100 to 240 V (+10%-15%) (free power source 50/60 Hz)	
performance		* When supplied AC adapter is used	
	Power consumption	4 W typ. (AC adapter)	
	Operating	Temperature: Operation 0 to +40℃ Storage -10 to +60℃	
	conditions	Humidity: 80% RH or less (non-condensing)	
	Dimension	50(W) × 80(H) × 23(D) mm (Projections excluded)	
	Weight	Approx. 120 g	
Attachment	Setup guide · · · · · 1	Cable for connecting UTM II /UTMV 2 m·····1	
	AC adapter for TM201		
Accessories	CA81-USB:	miniUSB-computer USB cable 1.8 m (same as attachment)	
	CATM21-M:	Cable for connecting UTM II /UTMV 2 m (same as attachment)	
	CATM51-M:	Cable for connecting UTM II /UTMV 5 m	
	CN90:	Waterproof plastic connector for UTM II /UTMV	
	TM201 AC PIN EU:	Switching AC PIN (EU)	
CE marking	EMC directives EN61326-1		
certification	Safety standard EN62311		
	Please specify requirement for CE marking certified product when making your order.		

Specifications

External dimension



Application software for USB interfaces

- Supporting USB interface option for TM201, TM400, TM700, TM301, TM320, TM380, and TC80.
- Enabling real-time display of torque measured by UTMII/UTMI/UTMV, parameter settings, calibration, and data recording in CSV format. (UTMII can only use TM320, TM380 & TC80.)

Software for USB interfaces for TM201



Waveform settings

Change settings of waveform display and/or data (1) Display mode Normal: Waveforms currently acquired are displayed History: Waveforms previously saved are displayed (2) Acquisition mode Single: Once "Start" button is clicked, waveform data is acquired for pre-set time period. "Single" mode operation will repeat in cycle until "stop" button is clicked. Repeat: Hold trigger (Only with TM301, TM320 and TM700): Data is acquired when "Hold" button is clicked. Level trigger*: Pre-trigger (0 to 99), trigger data (torque, rotation speed, power), Level (±99999), Trigger slope (positive, negative, either), Repeat trigger (Standby & wait for another trigger after waveform acquisition) * Depending on the torque monitors, the function varies. See Help of each software. Cursor Move two cursors freely, display each data value and their difference Zoom-in display (TM201, TM301, TM320, TM400 & TC80) Zoom-in display at any area * PC software can be downloaded from UNIPULSE website

Unit[.] mm