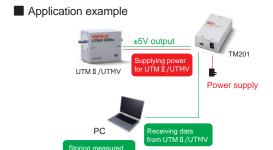
TM201

USB INTERFACE DEVICE FOR UTM II /UTMV



- Variations of torque, rpm, 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 UTM II /UTMV.
- Two cables are attached: one for UTM II /UTMV and the other for PC.
 - * Power (W) = $2\pi \times \text{Torque} (\text{Nm}) \times \text{Rotation speed (rpm)} / 60$

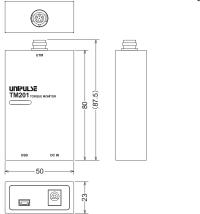


Specifications

UTMI	Torque sensor input (voltage input)
Interface	Signal input range -5 to $+5V$ input impedance : $1M\Omega$ or more
	Accuracy Non-linearity: Within 0.02%FS±1digit
	Zero drift: Within 0.2mV/℃ RTI
	Gain drift : Within 0.01%/℃
	Analog filter Primary low-pass filter 1kHz (fixed)
	Digital filter Secondary low-pass filter fc = 3, 30, 300, OFF (variable)
	Data output rate 300 times/sec.
	Resolution: 24bit Effective Resolution: Approx. 1/30000 against 5V
	Pulse input for rpm (input for open collector type)
	Maximum input frequency: Compatible with the pulse output frequency of UTM II /UTMV series
	Minimum input frequency: Select from 15, 10, 5, 3, or 2 rpm (when pulse rate is 4 ppr)
	60, 40, 20, 12, 8 rpm (when pulse rate is 1 ppr)
	Minimum pulse width: 50µs
	Circuit layout No-voltage (dry) contact input (minus common):
	open collector outputs can be connected (Ic= approx. 10mA)
	Power supply for UTM II Power supply DC24V (UTM II / UTMV 1 unit)
Display	LED status light LED (Red) : power supply/alarm status
	LED (Green): UTM II /UTMV is operating normally
Interface	USB
General	Power supply AC100V to 240V (+10%-15%) (free power source 50/60Hz)
performance	*When supplied AC adapter is used
	Power consumption 4W typ (AC adapter)
	Operating Temperature : Operation 0° C to $+40^{\circ}$ C Storage -10° C to $+60^{\circ}$ C
	conditions Humidity: 80%RH or less (non-condensing)
	Dimension 50(W)× 80(H)× 23(D)mm (Projections excluded)
	Weight Approx. 120g
Attachment	Setup guide·····1 Cable for connecting UTM II / UTMV 2m·····1
	AC adapter for TM201 1.8m·····1 MiniUSB -USB cable 1.8m·····1
Accessories	CAB1-USB:miniUSB-computer USB cable 1.8m CATM21-M:Cable for connecting UTM II/UTMV 2m CATM51-M:Cable for connecting UTM II/UTMV 5m CN90:Waterproof plastic connector for UTM II/UTMV TM20137ACCf*7F*3*.AC adapter(JAPAN AC PIN) TM20137ACCf*7EU: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.

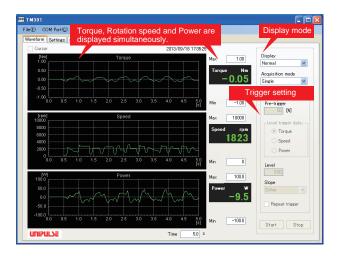
External dimension

Unit mm



Application software for USB interfaces

- Supporting USB interface option for TM201, TM400, TM700, and TM301.
- Enabling real-time display of torque measured by UTMI/UTMV, parameter settings, calibration, and data recording in CSV format.



■ Display mode

<Normal>

1. Single

After "start" button is pressed, data will be recorded once for pre-set time period.

2. Continuous

"Single" mode operation will be repeated in cycle until "stop" button is pressed.

3. Hold trigger (only with the TM301)

After "start" button is pressed, it will be put on standby for a trigger ("hold").

It will start importing data when "Hold" button is pressed.

*Pre-trigger setting range: 0 to 99%

4. Level trigger

After "start" button is pressed, it will be put on standby for a trigger (variable conditions).

It will start importing data when the input level goes above or below the pre-set limit in pre-determined direction.

<History>

Display saved graph data

Trigger function

Pre-trigger/trigger slope/repeating trigger