

TM201

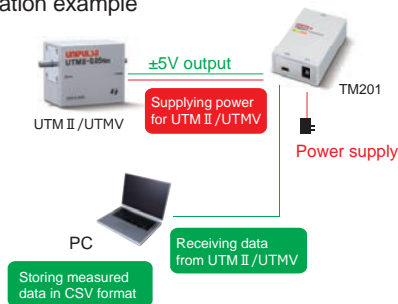
USB INTERFACE DEVICE FOR UTM II /UTMV



- 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.

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

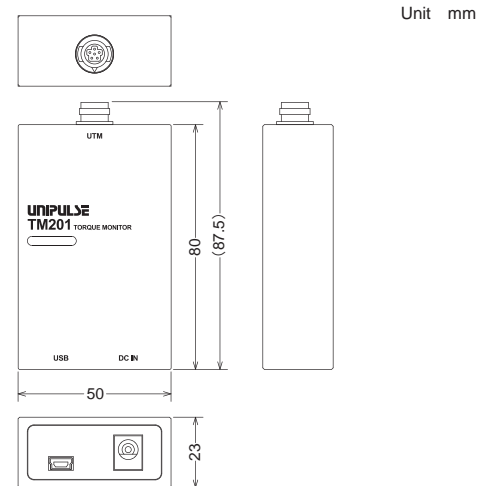
Application example



Specifications

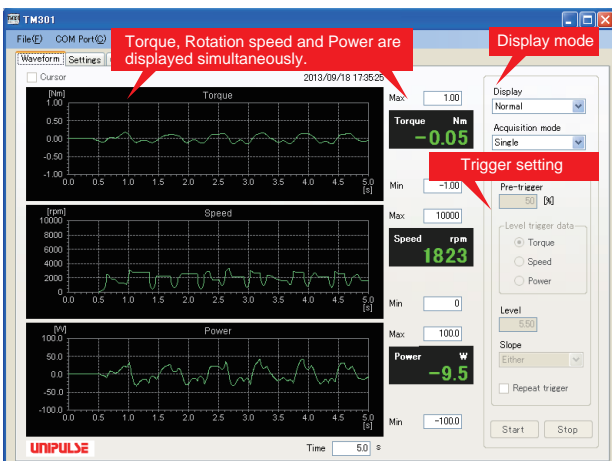
UTM II Interface	<ul style="list-style-type: none"> • Torque sensor input (voltage input) <ul style="list-style-type: none"> Signal input range -5 to +5V input impedance : 1MΩ or more Accuracy Non-linearity : Within 0.02%FS±1digit Zero drift : Within 0.2mV/°C RTI Gain drift : Within 0.01%/°C Analog filter Primary low-pass filter 1kHz (fixed) Digital filter Secondary low-pass filter fc = 3, 30, 300, OFF (variable) Data output rate 300 times/sec. <ul style="list-style-type: none"> Resolution : 24bit Effective Resolution: Approx. 1/30000 against 5V • Pulse input for rpm (input for open collector type) <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> 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): <ul style="list-style-type: none"> open collector outputs can be connected (Ic= approx. 10mA) • Power supply for UTM II <ul style="list-style-type: none"> Power supply DC24V (UTM II/UTMV 1 unit)
Display	<ul style="list-style-type: none"> LED status light LED (Red) : power supply/alarm status LED (Green) : UTM II/UTMV is operating normally
Interface	USB
General performance	<ul style="list-style-type: none"> Power supply AC100V to 240V (+10% -15%) (free power source 50/60Hz) <ul style="list-style-type: none"> *When supplied AC adapter is used Power consumption 4W typ (AC adapter) Operating conditions Temperature : Operation 0°C to +40°C Storage -10°C to +60°C <ul style="list-style-type: none"> Humidity : 80%RH or less (non-condensing) Dimension 50(W)× 80(H)× 23(D)mm (Projections excluded) Weight Approx. 120g
Attachment	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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
CE marking certification	<ul style="list-style-type: none"> EMC directives EN61326-1 Safety standard EN62311 Please specify requirement for CE marking certified product when making your order.

External dimension



Application software for USB interfaces

- Supporting USB interface option for TM201, TM400, TM700, and TM301.
- Enabling real-time display of torque measured by UTMII /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