

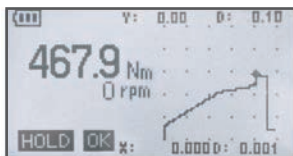
TM400 PORTABLE TORQUE MONITOR FOR UTM II /UTMV



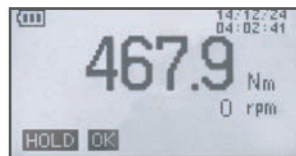
Suitable torque meter UTM II UTMV

- Convenient portable monitor for easy use of UTMII /UTMV.
- Ideal for on-site calibration of nut runners (use with UTMII with the square drive option).
- With the built-in battery, it can be operated even without power source.
- Easy connection to UTMII /UTMV with the supplied cable.
- Operation power can be supplied to the UTMII /UTMV. (also to an optional rotary encoder*).
- High-speed sampling at 20kS/s
- Torque & rotation speed and torque-angle curve can be monitored.
- Data recording with memory function and USB.
- Various display mode: real-time, graph, recorded data, etc....
- Upper/lower limit & hold function.
- Change the display mode by pressing the ESC button.

* Rotary encoder option is not available for UTMV.



Graph display

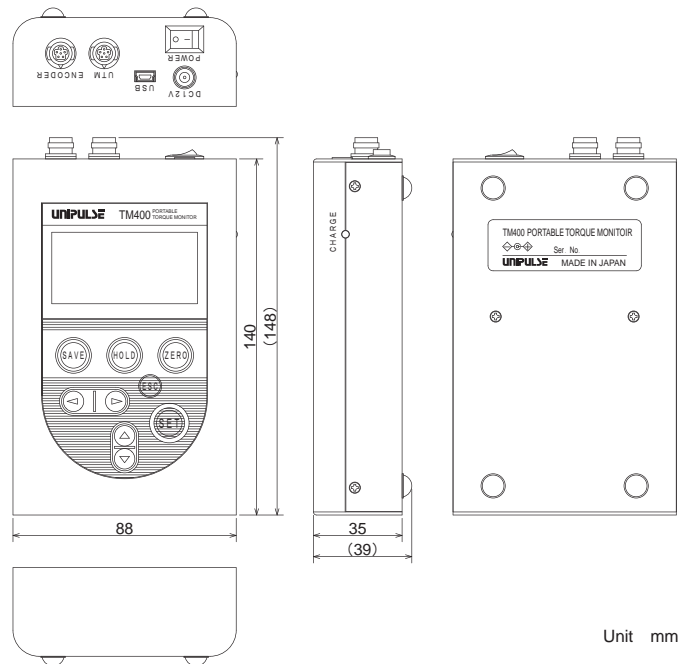


Value display

Specifications

Torque input	• voltage input
	Signal input range -5 to +5V Input impedance : 1M 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 Low pass filter (-6dB/oct.) Select from 10, 30, 100, 300, 1k, 3k, 10k, 30kHz
A/D converter Rate : 20000times/sec Resolution: 24bit Effective Resolution: Approx. 1/30000 against 5V	
Rotation input	• Pulse input (open-collector)
	Maximum input frequency: In accordance with the output frequency of the UTMII /UTMV series
	Minimum input frequency: 15rpm
	Minimum detection pulse width: 50µs
Encoder input	• Pulse input (open-collector)
	Maximum input frequency: 50kHz
Display	Display unit 128x64 dots monochromatic LCD (display area: 28 x 57)
	Displayed data Torque, rotation speed, angle (numeric), torque-time or torque-angle/displacement curve (graphic), and status display (high, low, OK, and hold)
Interface	USB
Power supply	Built-in secondary battery, maximum operating time: 5 hours, AC adaptor
Operating conditions	Temperature Operation temperature -10 to +40°C Storage temperature -20 to +60°C
	Humidity 85%RH or below (non-condensing)
Dimension	88(W)x 140(H)x 35(D)mm (excluding projections)
Weight	Approx.500g
Attachment	AC adaptor.....1
	Operation manual.....1
	Cable for connecting UTMII /UTMV 2m.....1
	Cable for connecting UTMII rotary encoder 2m.....1
Accessories	CAB1-USB: miniUSB-computer USB cable 1.8m
	CATM21-M: Cable for connecting UTMII /UTMV 2m
	CATM51-M: Cable for connecting UTMII /UTMV 5m
	CATM(R)Z1: Cable for UTMII with rotary encoder connection (non-connector at one end) 2m
	CATM(R)Z1-M: Cable for connecting UTMII rotary encoder 2m
	CATM(R)S1-M: Cable for connecting UTMII rotary encoder 5m
	CN90 : Waterproof plastic connector for UTMII /UTMV
	CN91 : Waterproof plastic connector for UTMII rotary encoder
TM400 AC CABLE EU : AC cable (for EU)	
CE marking certification	EMC directives EN61326-1 Safety standard EN62311 Please specify requirement for CE marking certified product when making your order.

External dimension



Unit mm